



WE ARE CONTEG

Over the past eighteen years, Conteg has been moving step by step toward the top of the market. We're a leader in supplying complete solutions for data centers, along with all variety of telecommunication cabinets and industrial enclosures. Our representatives can be found in sixty countries, on three continents. We deliver to small businesses, large corporations and complex industrial centers, and can assist you as well. Customer satisfaction is our driving force, though everything begins and ends with trust. Allow us an opportunity to prove that our consistent, personal approach will ensure innovative, effective solutions to suit your every need.



Conteg by numbers

Established: 1998

International Branches, Showrooms and Representatives: 10

Partners: in 60 countries on 3 continents

Headquarters: Prague, Czech Republic

Production Facilities and Central Warehouse: Pelhrimov, Czech Republic

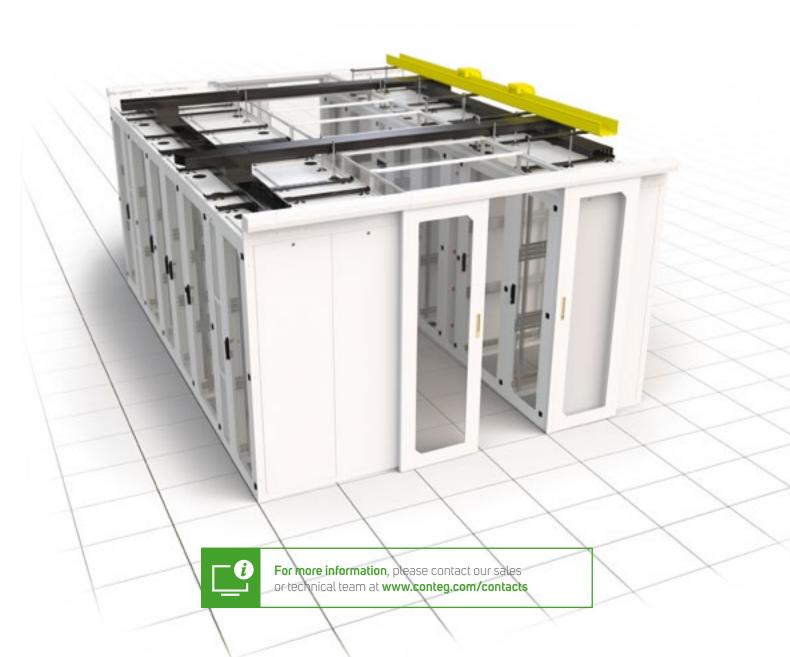


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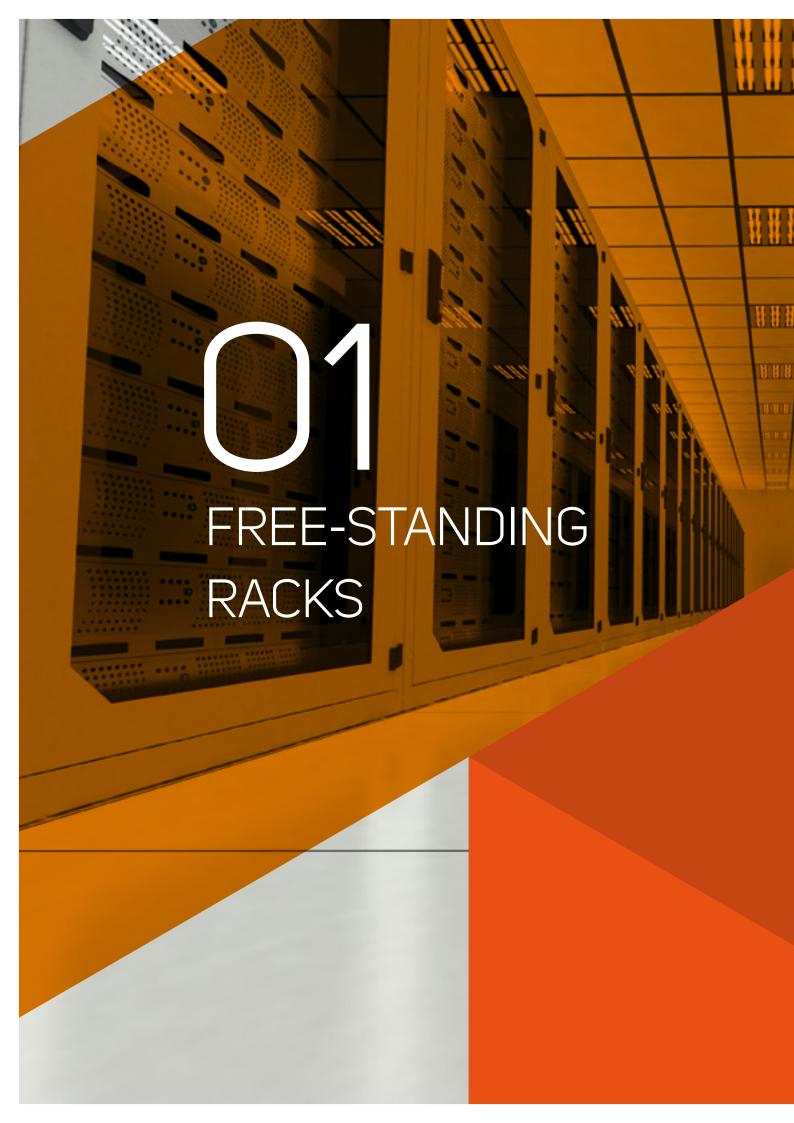
Conteg – Total Solutions for Data Centers

Building a data center is a very complex process, requiring knowledge of other disciplines, cooling and power systems, safety equipment access, monitoring and supervision. Correct layout ensures your satisfaction relating to safety issues, energy consumption, technical availability and countless other areas. The Conteg team has extensive experience in working out systems and proposals, from basic layout to monitoring and traffic control. Our design services include consultation on all sizes of projects, from remote office server rooms to large scale data center enterprises.



Contents

01 FREE-STANDING RACKS	4	CoolTop Cooling Units	87
PREMIUM Rack Series	6	Ventilation Units	88
PREMIUM Server RSF	7	Fans Lite Ventilation Unit	89 89
PREMIUM Server RSF BYTEline	12	Airflow Management Products	90
PREMIUM Cabling RDF	14	Contained Aisle	90
PREMIUM Housing RSB	18 21	19" Blank and Fast Blank Panels	90
PREMIUM Rack Series Plates OPTIMAL Rack Series	24	Air Separation Frame	91
OPTIMAL PC ROP	24	Airflow Deflector	91
OPTIMAL Cable Management	25	Chimney	91
iSEVEN Rack Series	26	19" Vented Panel 19" Vented Panel with Brush	92 92
iSEVEN Ri7	27	Side-To-Side Airflow Solution (STS)	93
iSEVEN Server	32	Side to Side/lintow Soldton (S13)	55
iseven flex RM7	34	05 COMPLEMENTARY SYSTEMS	94
iSEVEN Flex Server	38		
Open Frames, Space Optimization Sections, Extrusions Open Frames RSG4	41 41	Rack Monitoring System	96 97
Open Frames RSG2	42	RAMOS Ultra RAMOS Optima	98
Open Frames RS	43	RAMOS Plus	98
Accessories for RS Frames	44	RAMOS Mini	98
Space Optimization Section	45	Accessories	99
19" Extrusions	47	Access Control System (ACS)	100
		RAMOS Ultra ACS	100
02 WALL-MOUNT & SOHO RACKS	48	Standalone Electronic Latches	101
PREMIUM RUN	51	CONTEG Pro Server Management (Software)	102
PREMIUM Split RUD	52	Aegis DCIM Keyboard-Video-Mouse Solutions (KVM/LCD)	103 104
iSEVEN REN	53	Local Extinguishing Sustem (LES-RACK)	105
SOHO In-Wall ACP	54	Intelligent & Basic Power Distribution Units	106
SOHO On-Wall ACP	55	Basic Power	106
SOHO Mini REH 10" RACKS	56 57	Intelligent Power – Monitored	107
SOHO Mini REH Accessories 10" Fiber-optic Splice Box	57 57	Intelligent Power – Managed	108
10 Tiber optice box	37	Outlet and Plug Types	109
03 CABLE MANAGEMENT	58		440
65 CADEL MANAGEMENT	56	06 ACCESSORIES	110
High Density Wire Management (HDWM)	60	06 ACCESSORIES	
		Shelving	112
High Density Wire Management (HDWM)	60 61 62	Shelving 19" Fixed Lite Shelves Series DP-PT	112 112
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM	60 61 62 63	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO	112
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM	60 61 62 63 64	Shelving 19" Fixed Lite Shelves Series DP-PT	112 112 112
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System	60 61 62 63 64 65	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ	112 112 112 112
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross	60 61 62 63 64 65 66	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails	112 112 112 112 113
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow	60 61 62 63 64 65 66	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD	112 112 112 112 113 113 113 114
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross	60 61 62 63 64 65 66	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV	112 112 112 112 113 113 113 114 114
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover	60 61 62 63 64 65 66	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV	112 112 112 113 113 113 114 114
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap,	60 61 62 63 64 65 66 67	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors	112 112 112 112 113 113 113 114 114 114
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets	60 61 62 63 64 65 66 67 68	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products	112 112 112 112 113 113 113 114 114 114 114
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct	60 61 62 63 64 65 66 67 68 69	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors	112 112 112 112 113 113 113 114 114 114
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories	60 61 62 63 64 65 66 67 68 69 70 71	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box	112 112 112 113 113 113 114 114 114 115 115
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets	60 61 62 63 64 65 66 67 68 69 70 71 72 73	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels	112 112 112 113 113 113 114 114 114 115 115
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management	60 61 62 63 64 65 66 67 68 69 70 71	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks	112 112 112 113 113 113 114 114 114 115 115 116 116 117
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct – Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets,	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules	112 112 112 113 113 113 114 114 114 115 115 116 116 117 117
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management	60 61 62 63 64 65 66 67 68 69 70 71 72 73	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules	112 112 112 113 113 113 114 114 115 115 116 117 117
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct – Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct – Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars Cable Clamp Bracket / Earthing Bar for Patch Panel	112 112 112 113 113 113 114 114 114 115 115 116 116 117 117 117
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct – Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders,	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders, Vertical Wire Management Panels,	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars Cable Clamp Bracket / Earthing Bar, Earthing Rail	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117 117 118 118
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders, Vertical Wire Management Panels, Horizontal Cable Tray and Side Cable Management Holders,	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars Cable Clamp Bracket / Earthing Bar, Earthing Rail Modular Plinths	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117 117 118 118 118 119 119
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders, Vertical Wire Management Panels, Horizontal Cable Tray and Side Cable Management Holders, Side Cable Perforated Panels for A-type Extrusions	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars Cable Clamp Bracket / Earthing Bar for Patch Panel 19" Panel with Earthing Bar, Earthing Rail Modular Plinths Set of Plinth Corners, Set of Side Panels	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117 117 118 118 118 119 119 120
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders, Vertical Wire Management Panels, Horizontal Cable Tray and Side Cable Management Holders,	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars Cable Clamp Bracket / Earthing Bar for Patch Panel 19" Panel with Earthing Bar, Earthing Bar, Earthing Rail Modular Plinths Set of Plinth Corners, Set of Side Panels Plinths for 1200 mm Deep Racks & Space Optimization Sections Mounting & Connecting Kits Others	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117 117 117 118 118 118 119 119 120 121 122
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders, Vertical Wire Management Panels, Horizontal Cable Tray and Side Cable Management Holders, Side Cable Perforated Panels,	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for Keystone Modules Earthing Bars Cable Clamp Bracket / Earthing Bar for Patch Panel 19" Panel with Earthing Bar, Earthing Bar, Earthing Rail Modular Plinths Set of Plinth Corners, Set of Side Panels Plinths for 1200 mm Deep Racks & Space Optimization Sections Mounting & Connecting Kits Others 19" Wall-Mounting Holders, Castors & Feet	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117 117 117 118 118 119 119 120 121 122 122
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders, Vertical Wire Management Panels, Horizontal Cable Tray and Side Cable Management Holders, Side Cable Perforated Panels,	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 74	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for LSA-Plus Modules Earthing Bars Cable Clamp Bracket / Earthing Bar for Patch Panel 19" Panel with Earthing Bar, Earthing Bar, Earthing Rail Modular Plinths Set of Plinth Corners, Set of Side Panels Plinths for 1200 mm Deep Racks & Space Optimization Sections Mounting & Connecting Kits Others 19" Wall-Mounting Holders, Castors & Feet Lighting Units, Cable Protection in Openings	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117 117 117 118 118 118 119 119 120 121 122
High Density Wire Management (HDWM) Front Duct System Compatible With Vertical HDWM Vertical HDWM Horizontal HDWM Adjustable Cable Through for Vertical HDWM Optiway Optical Pathway System Main Duct, Joiner, Cross Reducer, Tee, Horizontal Elbow Vertical Inside Elbow, Spillover Vertical Outside Elbow, Trumpet, End Cap, Spillover Support Bracket Threaded Rod Attachment Bracket, Threaded Rod Mounting Brackets Top Duct Top Duct — Cross Connection, Accessories Supporting Brackets Standard Cable Management 19" Wire Management Panels with Plastic Brackets, Plastic Cable Brackets 19" Wire Management Panels with Plastic Ducts, Wire Management Panels with Metal Brackets, Metal Cable Brackets Vertical Wire Management Panels and Cable Bracket Holders, Vertical Wire Management Panels, Horizontal Cable Tray and Side Cable Management Holders, Side Cable Perforated Panels for A-type Extrusions Cable Basket Trays, Side Cable Perforated Panels, Side Cable Grids	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 74 75	Shelving 19" Fixed Lite Shelves Series DP-PT 19" Fixed Shelves Series DP-PO 19" Fixed High-Load Shelves Series DP-PZ 19" Pull-out Shelves Series DP-PO-V 19" Pull-out High Load Shelves Series DP-PZ-V Supporting Rails 19" Pull-out Drawer DP-DD 19" Pull-out Keyboard Holder Series DP-PV 19" Folding Keyboard Holder Series DP-PV 21" Adaptors Fiber-optic Products 19" Fixed Fiber-Optic Splice Box 19" Telescopic Fiber-Optic Splice Box Wall-Mounting Fiber Optic Splice Box Patch Panels 19" Panels for 110 Connecting Blocks 19" Patch Panels for Keystone Modules 19" Patch Panels for Keystone Modules Earthing Bars Cable Clamp Bracket / Earthing Bar for Patch Panel 19" Panel with Earthing Bar, Earthing Bar, Earthing Rail Modular Plinths Set of Plinth Corners, Set of Side Panels Plinths for 1200 mm Deep Racks & Space Optimization Sections Mounting & Connecting Kits Others 19" Wall-Mounting Holders, Castors & Feet	112 112 112 113 113 113 114 114 114 115 115 116 117 117 117 117 117 118 118 119 119 120 121 122 122
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	PREMIUM RACK SERIES			
	RSF	RSF BYTEline	RDF	RSB
Comparison	Welded-frame	Welded-frame	Welded-frame	Welded-frame
	1.5 and 2 mm sheet steel			
	See page 7	See page 12	See page 14	See page 18
Appropriate use				
Server rack	+++	+++	++	+++
Data rack	+++	+++	+++	+
Cable rack	++	++	+++	+
Data centers	+++	+++	+++	+++
Balanced load rating				
Up to 800 kg	yes	yes	yes	yes
Up to 1000 kg	yes	yes	-	yes
Up to 1500 kg	yes	yes	-	yes
Up to 1500 kg on 19" extrusions	yes	yes	-	-
IP rating				
IP20	yes	yes	yes	yes
IP40	yes	-	yes	_
IP54	yes	_	yes	_
Baying				
Side	yes	yes	yes	yes
With special sections	yes	yes	yes	yes
Targeted cooling				
Door perforation 86%	yes	yes	yes	yes
Ventilation units	yes	_	yes	_
CoolTop units	yes	yes	yes	yes
Side-mount CoolTeg units	yes	yes	yes	yes
Cabling				
Changeable internal configuration	yes	yes	yes	yes
Supports HDWM (Cat. 6A and higher)	yes	yes	yes	yes
Supports OptiWay	yes	yes	yes	yes
Supports TopDucts	yes	yes	yes	yes
Size	, ,	,	·	J
27U	yes	_	yes	_
42U	yes	yes	yes	yes
45U	yes	-	yes	yes
48U	yes	_	yes	yes
52U	yes	_	_	_
Colors				
Black RAL 9005	yes	yes	yes	yes
Light gray RAL 7035	yes	yes	yes	yes
Locking system	Ů.	J.	J. T.	
Singlepoint	yes	-	yes	yes
Multipoint	yes	yes	yes	-
Security options	Ů.	3	3	
Access control system	yes	yes	yes	yes
Airflow management	yes	yes	yes	yes
Monitoring indoor and outdoor environment	yes	yes	yes	yes
Coporal comparisons of IT cack sories; for took		900	900	900

General comparisons of IT rack series; for technical details see appropriate catalog pages.

PREMIUM SERVER RSF



RSF-42-80/10A

The PREMIUM Server RSF rack has been designed as a pure server cabinet for data centers, equipment rooms and network or telecommunication closets. RSF's heavy-duty, all-welded design and up to 1500 kg load rating are perfect for accommodating heavy equipment. RSF is designed to work with both Conteg's cooling and airflow optimization solutions and flexible cable management systems. RSF can be used with many complementary systems (e.g. Intelligent Power PDUs), making your servers safe and secure.





MAIN ADVANTAGES

- Pure server rack for heavy IT hardware (up to 1500 kg in weight and 52U in height)
- Fully configurable
- Unmatched 86% door perforation ratio decreases server fan power consumption
- Two unique extrusion types allow you to choose the best solution for your application

COLOR SAMPLER:





DESCRIPTION:

- Height: 27, 42, 45, 48, 52U (52U not available for 800 mm depth)
- Width: 600, 800 mm
- Depth: 800, 1000, 1200 mm (1200 mm not available for 27U)

Construction

- Welded-frame design
- 1.5 & 2.0 mm sheet steel

Load rating

• 1500 kg balanced load (1000 kg for 27U only)

19" Vertical extrusions

- 2 pairs of sliding 19" vertical A-type (600 or 800 mm) extrusions without horizontal holders (for 800 mm provide additional 24U of installation space - valid for racks 42U and taller), adjustable from inside
- Options: 2 pairs of sliding 19" vertical L-type (600 mm) or P-type (800 mm) extrusions (provide additional 12U of installation space - valid for racks 42U and taller), adjustable from inside. Rear pair of vertical extrusions are divided into 3 parts (according to rack height) for individual settings (according to server depth).

IP ratino

- Standard IP20
- IP40 when solid doors or panels applied
- Options: up to IP54 with multipoint lock only
- A/C-ready IP54 when A/C unit installed with multipoint lock only

Colors

• Standard RAL 9005 and 7035

Front door

- Vented door perforation rate 86%
- Swivel handle lock DIN profile, universal key 333, multipoint; optional combination lock or electronic locks, single or multipoint
- Door opening angle 180°
- · Easy re-hanging to open on right or left
- Options: glass, steel, perforated, glass with perforation, vertically divided door

Rear door

- Vented door perforation rate 86%
- Swivel handle lock DIN profile, universal key 333, multipoint; optional combination lock or electronic locks, single or multipoint
- Option: replaceable with full range of front doors and panels

Side panels

Removable with locks

Top plate

- Single-piece design, removable
- 4" (100 mm) rounded cable entry in every corner covered by plastic cap
- 300×100 mm cable entries covered with removable blank sheet steel panels

Bottom plate

- Segmented design, removable
- 4" (100 mm) rounded cable entry in every corner covered by plastic caps
- 300×100 mm cable entries covered with removable blank sheet steel panels

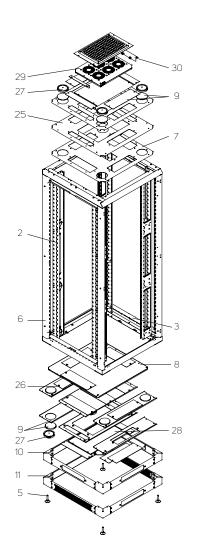
• Adjustable feet standard; plinth or plinth with filter optional

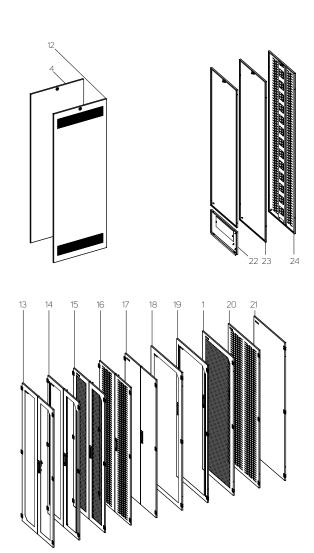
Adaptation

• Can be adapted for installation of 21" equipment (on request, for 800 mm width only)

- Installable in blocks with DP-DR-UNI (ordered) separately)
- GND/earthing kit included

RSF RACKS

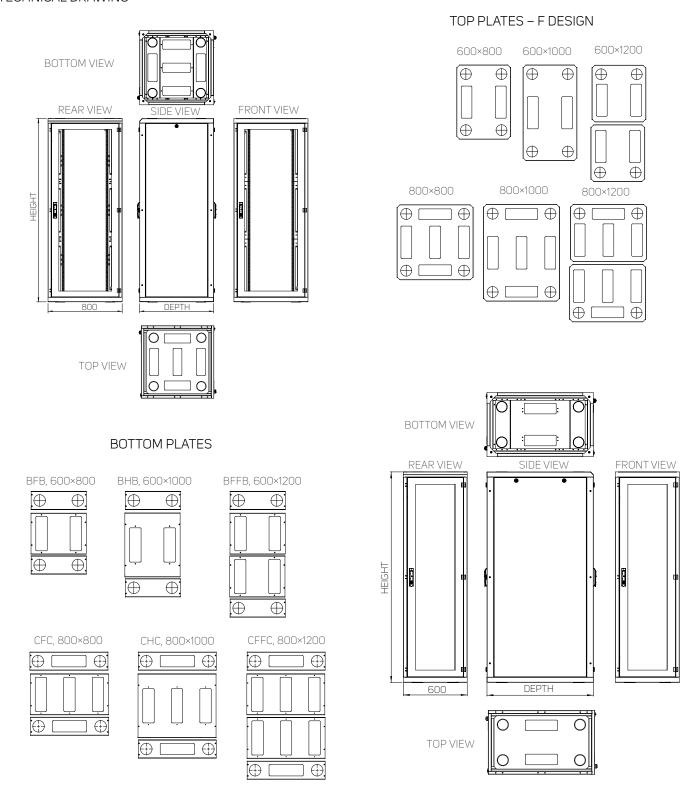




ST	ANDARD CONFIGURATION (short Code only)	OP.	TIONS
1	Front and rear vented door 86% with multipoint swivel handle lock	10	Plinth
2	2 pairs A-type 19" sliding extrusions	11	Plinth with filter
3	Vertical extrusion holders	12	1 pair of side panels with perforation
4	1 pair side panels with lock	13	Vertically divided glass door ^{1,2}
5	Adjustable feet	14	Vertically divided glass door with perforation ^{1,2}
6	Rack frame	15	Vertically divided vented door 86% ²
7	Removable F-design top plate with cable entry openings	16	Vertically divided perforated sheet steel door ²
8	Removable segmented bottom plate set (consists of C and F-design plates; may differ for other rack footprints) with cable entry openings	17	Vertically divided sheet steel door ²
9	Plastic caps and blank panels for cable entry openings	18	Glass door
-	GND/earthing kit	19	Glass door with side perforation
-	28 mounting kits	20	Perforated sheet steel door
-	FREE BONUS: 2 rounded cable grommets with brush DP-KP-RB4	21	Sheet steel door
		22	Rear panel with module
		23	Rear panel – 1 piece
		24	Rear panel – perforated
		25	Removable B-design top plate with cable entry and ventilation openings
		26	Removable segmented bottom plate set (consists of B and G-design plates; may differ for other rack footprints) with cable entry and ventilation openings
		27	Rounded cable grommet with brush
		28	Blank panels for ventilation openings
		29	Ventilation unit
		30	Connecting kit with ventilation unit filter

¹Not available for 600 mm wide racks ²Requires multipoint lock

TECHNICAL DRAWING



RSF RACKS - CABLE ENTRIES AND VENTILATION OPENINGS

Dock discosions (width wheels)	Top plate openings		Bottom plate openings	
Rack dimensions (width × depth)	300×100 mm	4" (Ø 100 mm)	300×100 mm	4" (Ø 100 mm)
600×800 mm	2×	4×	2×	4×
600×1000 mm	2×	4×	2×	4×
600×1200mm	4×	4×	4×	4×
800×800 mm	5×	4×	5×	4×
800×1000 mm	5×	4×	5×	4×
800×1200 mm	8×	4×	8×	4×

ORDERING AND SHIPPING INFORMATION: Configure the rack that meets your requirements. The ordering matrix below will help you create a Code. As soon as you have the Code, please contact your Conteg products distributor. Please note that all RSF RACKS ARE DELIVERED FULLY ASSEMBLED and palletized!

FOLLOW THE STEPS TO SET UP THE DESIRED RSF RACK CODE!

An example of a correct Code:

R S 48 80 12 Α 2 Н

1. HEIGHT			
Code	Height (in U)	External height (mm)	
27	27	1311	
42	42	1978	
45	45	2111	
48	48	2245	
52	52	2423	

2. WIDTH		
Code	Width (mm)	
60	600	
80	800	

3. DEPTH				
Code	Depth (mm)	Useful depth (mm)		
8	800¹	731		
10	1000	931		
12	1200²	1131		
¹ Not availab	lo for 52LL			

	4. EXTRUSION			
Code	Front pair	Rear pair	Note	
A	А	А	A-type extrusions, non-divided (600 or 800 mm wide) extrusions without horizontal holders (for 800 mm provide additional 24U of installation space — valid for racks 42U and taller) adjustable from inside, blank panels not included	
Т	L	L divided	L-type extrusions, rear pair divided – for racks 600 mm wide only	
U	Р	P divided	P-type extrusions, rear pair divided – for racks 800 mm wide only, each extrusion with up to 3 additional 19" vertical positions (27U has 2 positions only), blank panels not included	

	5. FRONT DOOR
Code	Depth (mm)
0	Without door ¹
G	Glass door
S	Sheet steel door
Р	Perforated sheet steel door ²
Т	Glass door with side perforation ³
W	Vented door (perforation rate 86%) ²
Α	Vertically divided glass door4*
В	Vertically divided glass door with side perforation ⁶ *
С	Vertically divided sheet steel door4
D	Vertically divided perforated sheet steel door ⁵
F	Vertically divided vented door (perforation rate 86%) ⁵
	Other
¹ No ID prof	raction

	(porrorador rata de 70)
Α	Vertically divided glass door4*
В	Vertically divided glass door with side perforation ⁶ *
С	Vertically divided sheet steel door ⁴
D	Vertically divided perforated sheet steel door ⁵
F	Vertically divided vented door (perforation rate 86%) ⁵
	Other
No IP prot	ection

²IP20 max.

6. FRONT DOOR LOCK		
Code	Depth (mm)	
٧	Swivel handle, DIN profile, universal key 333	
W	Swivel handle, DIN profile, universal key 333, multipoint	
G	Swivel handle with combination lock, individual key	
н	Swivel handle with combination lock, individual key, multipoint	
1	Electronic door lock with profile half cylinder, cable 4 m	
2	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included	
3	Electronic door lock with profile half cylinder, cable 4m, multipoint	
4	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included, multipoint	
	Other	

² Not available for 27U

	7. REAR DOOR / PANEL		
Code	NOTE		
0	Without panel/door¹		
G	Glass door		
S	Sheet steel door		
Р	Perforated sheet steel door ²		
Т	Glass door with side perforation ³		
W	Vented door (perforation rate 86%) ²		
Α	Vertically divided glass door4*		
В	Vertically divided glass door with side perforation ^{6*}		
С	Vertically divided sheet steel door4		
D	Vertically divided perforated sheet steel door ⁵		
F	Vertically divided vented door (perforation rate 86%) ²		
Υ	Rear panel – single piece ^{3,7}		
R	Rear panel – divided, with cable entry ⁷		
Z	Perforated rear panel – single piece8		
	Other		
No IP pro	tection		

8. 1	8. REAR DOOR / PANEL LOCK								
Code	OPTIONS								
٧	Swivel handle, DIN profile, university key 333								
W	Swivel handle, DIN profile, universal key 333, multipoint								
G	Swivel handle with combination lock, individual key								
Н	Swivel handle with combination lock, individual key, multipoint								
1	Electronic door lock with profile half cylinder, cable 4 m								
2	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included								
3	Electronic door lock with profile half cylinder, cable 4 m, multipoint								
4	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included, multipoint								
U	Lock for rear panel, universal key								
X	Lock for rear panel, keyed different								
	Other								

٤	9. SIDE PANELS (BOTH SIDES)*							
Code	NOTE							
0	No side panels							
Α	2 side panels, sheet steel, universal key							
В	1 side panel, sheet steel, universal key							
С	2 side panels, sheet steel, individual key							
D	1 side panel, sheet steel, individual key							
E	2 side panels, sheet steel with perforation, universal key							
F	1 side panel, sheet steel with perforation, universal key							
G	2 side panels, sheet steel with perforation, individual key							
Н	1 side panel, sheet steel with perforation, individual key							
	Other							
* Open cide	/sides results in an ID protection; side papels							

Open side/sides results in no IP protection; side panels with perforation result in IP20 max protection rating.

10. IP RATING ¹						
Code	Note					
0	IP00					
2	IP20					
3	IP30					
4	IP40					
5	IP54³					
Α	A/C ready ^{2,3}					
1 4	- FN 60 F00					

According to EN 60 529 ² Ready for A/C unit installation; recommended when cooling planned or required; IP54 when A/C unit installed according to

11. PLATES ¹								
Code	Top Plate	Bottom plate	Note					
Α	Р	X	Top and bottom single piece plates required for IP54					
С	no top	X	Open top – for A/C-ready option (table 10)					
E	F	XXX/XXXX ²	Standard – one piece top plate, segmented bottom plate					
F	F	no bottom³	Open bottom – ready for installation on raised floor or plinth					
Χ	no top ³	no bottom³	Open top and bottom, for individual plates go to page 21					

 $^{^{\}rm 3}$ Open top or bottom results in no IP protection, unless otherwise stated

	12. LOAD RATING									
Code	Load rate (kg)	Note								
Α	1000	27U only								
F	1500	Balanced load								

	13. COLOR						
Code	Code Note						
В	RAL 7035 (light gray)						
Н	RAL 9005 (black)						



Configure IT rack on-line www.conteg.com/configurators

³ IP30 max. ⁴ Multipoint lock only

⁵Multipoint lock only, IP20 max. ⁶ Multipoint lock only, IP30 max.

^{*} Options apply for RSF 800 only

²IP20 max. ³ IP30 max.

⁴ Multipoint lock only ⁵ Multipoint lock only, IP20 max.

⁶ Multipoint lock only, IP30 max.

⁷Lock code U or X only ⁸Lock code U or X only, IP20 max.

^{*} Options apply for RSF800 only

³ Multipoint lock only

 $^{^1}$ See pg. 21 for more information 2 600×800: BFB, 600×1000: BHB, 600×1200: BFFB, 800×800: CFC, 800×1000: CHC, 800×1200: CFFC

		Load rating		Dimensi	ons (mm)		Dimensions incl. packing (mm)			Gross weight
Code	H (in U)	(kg)	Н*	W	D	Useful depth	н	W	D	(kg)
RSF-27-60/8A	27	1000	1311	600	800	731	1500	640	840	85
RSF-42-60/8A	42	1500	1978	600	800	731	2160	640	840	112
RSF-45-60/8A	45	1500	2111	600	800	731	2290	640	840	119
RSF-48-60/8A	48	1500	2245	600	800	731	2430	640	840	123
RSF-27-60/10A	27	1000	1311	600	1000	931	1500	640	1040	109
RSF-42-60/10A	42	1500	1978	600	1000	931	2160	640	1040	135
RSF-45-60/10A	45	1500	2111	600	1000	931	2290	640	1040	142
RSF-48-60/10A	48	1500	2245	600	1000	931	2430	640	1040	148
RSF-52-60/10A	52	1500	2423	600	1000	931	2608	640	1040	156
RSF-42-60/12A	42	1500	1978	600	1200	1131	2160	640	1240	149
RSF-45-60/12A	45	1500	2111	600	1200	1131	2290	640	1240	170
RSF-48-60/12A	48	1500	2245	600	1200	1131	2430	640	1240	178
RSF-52-60/12A	52	1500	2423	600	1200	1131	2608	640	1240	189
RSF-27-80/8A	27	1000	1311	800	800	731	1500	840	840	100
RSF-42-80/8A	42	1500	1978	800	800	731	2160	840	840	134
RSF-45-80/8A	45	1500	2111	800	800	731	2290	840	840	141
RSF-48-80/8A	48	1500	2245	800	800	731	2430	840	840	147
RSF-27-80/10A	27	1000	1311	800	1000	931	1500	840	1040	124
RSF-42-80/10A	42	1500	1978	800	1000	931	2160	840	1040	157
RSF-45-80/10A	45	1500	2111	800	1000	931	2290	840	1040	165
RSF-48-80/10A	48	1500	2245	800	1000	931	2430	840	1040	173
RSF-52-80/10A	52	1500	2423	800	1000	931	2608	840	1040	184
RSF-42-80/12A	42	1500	1978	800	1200	1131	2160	840	1240	175
RSF-45-80/12A	45	1500	2111	800	1200	1131	2290	840	1240	198
RSF-48-80/12A	48	1500	2245	800	1200	1131	2430	840	1240	208
RSF-52-80/12A	52	1500	2423	800	1200	1131	2608	840	1240	220

^{*} Height in mm without feet; for feet add 16–45 mm

Recommended accessories



CoolTeg Plus Cooling Units More information on page 81



Hight Density Wire Management More information on page 60



Intelligent Power - Monitored More information on page 107

PREMIUM SERVER RSF BYTEline



RSF-42-80/100-BLA2

The PREMIUM Server RSF BYTEline rack is designed as a dedicated server cabinet for data centers, equipment rooms and network or telecommunication closets. The RSF's heavy-duty, all-welded design and 1500 kg load rating make it ideal for accommodating heavy equipment within a standard rack footprint. 19" RSF server racks also offer top-of-the-line cabling support, with unbeatable access.





MAIN ADVANTAGES

- All-features-included server rack
- Unmatched 86% door perforation ratio decreases server fan power consumption
- Advanced door design
- > Dedicated server design
- Tailored for typical data center projects with hot/cold aisle or contained aisle layouts
- Safety Lift-Off Hinge for tool-less door assembly/disassembly
- Fully compatible with Zero U (OU) PDUs

COLOR SAMPLER:



RAL 7035

DESCRIPTION:

Sizes

- Height: 42U
- Width: 600, 800 mm
- Depth: 1000, 1200 mm

Construction

- Welded-frame design
- 1.5 & 2.0 mm sheet steel

Load rating

- 1500 kg balanced load
- 2 pairs of sliding 19" vertical A-type (600 or 800 mm) extrusions without horizontal holders (for 800 mm provide additional 24U of installation space), adjustable from inside

IP rating

• Standard IP00

Colors

• Standard RAL 9005 and 7035

Front door

- Vented door perforation rate 86%
- Swivel handle lock DIN profile, universal key 333, multipoint
- Door opening angle 180°
- Easy re-hanging to open on right or left

- Vented door perforation rate 86%
- Swivel handle lock DIN profile, universal key 333, multipoint

Side panels

• Removable with locks or without side panels

• Single-piece design, removable

- 4" (100 mm) rounded cable entry in every corner covered by plastic cap
- 300×100 mm cable entries covered with removable blank sheet steel panels

Bottom plate

No bottom plate

· Adjustable feet standard

Adaptation

• Adaptable for installation of 21" equipment (upon request, for 800 mm width only)

- Installable in blocks with DP-DR-UNI (ordered separately)
- GND/earthing kit included

ORDERING INFORMATION FOR RSF BYTEline: The configurations presented below cannot be changed. Please note that all RSF BYTEline RACKS ARE DELIVERED FULLY ASSEMBLED and palletized!

RSF BYTEline - DIMENSIONS AND FEATURES

		Dimensions (mm)		Front door	Re	Rear door		Side panels		Extrusions	
Code	H (in U)	w	D	Vented door	Vented door	Vertically divided vented door	Two side panels	Without	A-type	A-type with additional 12×2U	
RSF-42-60/100-BLA1-X	42	600	1000	yes	yes	-	yes	-	yes	-	
RSF-42-60/100-BLA4-X	42	600	1000	yes	yes	-	-	yes	yes	-	
RSF-42-60/100-BLA7-X	42	600	1000	yes	-	yes	yes	-	yes	-	
RSF-42-60/120-BLA8-X	42	600	1200	yes	-	yes	yes	-	yes	-	
RSF-42-60/100-BLA10-X	42	600	1000	yes	-	yes	-	yes	yes	-	
RSF-42-60/120-BLA11-X	42	600	1200	yes	-	yes	-	yes	yes	-	
RSF-42-80/100-BLA2-X	42	800	1000	yes	yes	-	yes	-	-	yes	
RSF-42-80/100-BLA3-X	42	800	1000	yes	-	yes	yes	-	-	yes	
RSF-42-80/100-BLA5-X	42	800	1000	yes	yes	-	-	yes	-	yes	
RSF-42-80/100-BLA6-X	42	800	1000	yes	-	yes	-	yes	-	yes	
RSF-42-80/120-BLA9-X	42	800	1200	yes	-	yes	yes	-	-	yes	
RSF-42-80/120-BLA12-X	42	800	1200	yes	-	yes	-	yes	-	yes	

Substitute X with desired color: B - RAL 7035 (light gray) or H - RAL 9005 (black). Please note that RSF-BYTEline series differs from standard RSF rack configurations.

Recommended accessories



Air separation frame More information on page 91



RAMOS Ultra More information on page 97



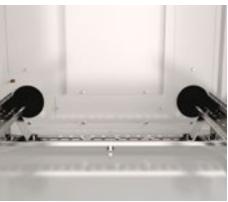
19" blank and fast blank panels More information on page 90

PREMIUM CABLING RDF



The PREMIUM Cabling RDF rack is designed as a pure cabling cabinet for data centers, equipment rooms and network or telecommunication closets. RDF racks installed with advanced cabling systems (such as High Density Wire Management, OptiWay and Top Ducts), provide the best possible support and care.





MAIN ADVANTAGES

- All-purpose rack designed for cabling applications with load up to 800 kg
- Fully configurable
- Compatible with all cable management systems OptiWay, High Density Wire Management, Top Ducts

COLOR SAMPLER:

✓ RAL 9005

RAL 7035

RDF-42-80/80

DESCRIPTION:

Sizes

- Height: 27, 42, 45, 48U
- Width: 800 mm
- Depth: 800, 1000, 1200 mm (1200 mm not available for 27U)

Construction

- Welded-frame design
- 1.5 & 2.0 mm sheet steel

Load rating

• 800 kg balanced load (for 27U 400 kg only)

19" vertical extrusions

• 2 pairs of sliding 19" extrusions, adjustable from inside

IP ratino

- Standard IP40
- Optional IP54 (with multipoint lock only)
- IP20 with perforated or vented doors
- A/C ready IP54 when A/C unit installed with multipoint lock

• Standard RAL 7035 and 9005

Front door

· Tinted security glass door

- Swivel handle lock DIN profile, universal key 333, multipoint; optional combination lock or electronic locks; single or multipoint
- Door opening angle 180°
- Easy re-hanging to open on right or left
- Optional steel, vented, perforated, glass with perforation, vertically divided door

Rear door

- Sheet steel door
- Swivel handle lock DIN profile, universal key 333, multipoint; optional combination lock or electronic locks, single or multipoint
- Can be replaced by a full range of front door and panel options

Side panels

• Removable with locks

Top plate

- Single-piece design, removable
- 4" (100 mm) rounded cable entry in every corner covered by plastic cap
- 300×100 mm cable entries covered with removable blank sheet steel panels
- 300×50 mm cable entries covered with removable blank sheet steel panels

- 420×280 mm ventilation opening(s) covered with removable blank sheet steel panels allow for installation of 6-fan ventilation unit(s) (800 mm and 1200 mm deep racks only)
- 420×440 mm ventilation opening covered with removable blank sheet steel panels allow for installation of 9-fan ventilation unit (1000 mm deep racks only)

Bottom plate

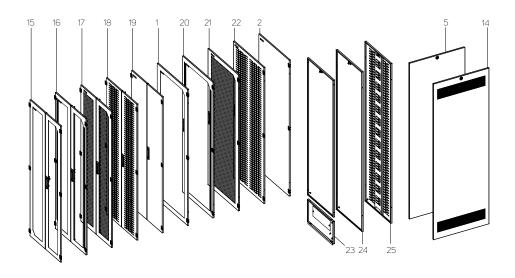
- Segmented design, removable
- 4" (100 mm) rounded cable entry in every corner covered by plastic caps
- 300×100 mm cable entries covered with removable blank sheet steel panels

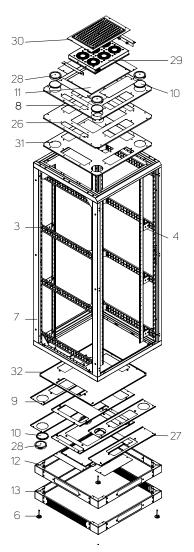
• Adjustable feet standard; castors, lockable castors, plinth or plinth with filter options

Adaptation

• Adaptable for installation of 21" equipment

- Installable in blocks with DP-DR-UNI (ordered separately)
- GND/earthing kit included





STA	NDARD CONFIGURATION (short Code only)	OPTIONS			
1	Front glass door with swivel handle lock	15	Vertically divided glass door*		
2	Rear sheet steel door with swivel handle lock	16	Vertically divided glass door with perforation*		
3	2 pairs of 19" sliding extrusions	17	Vertically divided vented door 86%		
4	Vertical extrusion holders	18	Vertically divided perforated sheet steel door*		
5	1 pair of side panels with lock	19	Vertically divided sheet steel door*		
6	Adjustable feet	20	Glass door with side perforation		
7	Rack frame	21	Vented door 86%		
8	Removable I-design top plate with cable entry and ventilation openings	22	Perforated sheet steel door		
9	Removable segmented bottom plate set (consists of C and F-design plates; may differ for other rack footprints) with cable entry openings	23	Rear panel with module		
10	Plastic caps and blank panels for cable entry openings	24	Rear panel – 1 piece		
11	Blank panel for ventilation opening	25	Rear panel – perforated		
12	Plinth	26	Removable B-design top plate with cable entry and ventilation openings		
13	Plinth with filter	27	Removable segmented bottom plate set (consists of B and G-design plates; may differ for other rack footprints) with cable entry and ventilation openings		
14	1 pair of side panels with perforation	28	Rounded cable grommet with brush		
-	GND/earthing kit	29	Ventilation unit		
-	28 mounting kits	30	Connecting kit with filter for ventilation unit		
-	BONUS: 2 rounded cable grommets with free DP-KP-RB4 brush	31	Removable F-design top plate with cable entry and ventilation openings		
		32	Removable X-design bottom plate with cable entry openings		

^{*} Requires multipoint lock

BOTTOM VIEW 800×800 \bigoplus [$\Box \oplus$ 800×1200 \oplus REAR VIEW FRONT VIEW SIDE VIEW 800×1000 $\overline{\oplus}$ Γ \oplus \oplus \Box height **BOTTOM PLATES** depth TOP VIEW CFC - 800×800 CHC - 800×1000 CFFC - 800×1200 \oplus \oplus \oplus 0 0 \oplus \oplus

TOP PLATES - I DESIGN

RDF RACKS - CABLE ENTRIES AND VENTILATION OPENINGS

Rack dimensions			Bottom pla	te openings			
(width × depth)	300×100 mm	300×50 mm	4" (Ø 100 mm)	420×280 mm	420×440 mm	300×100 mm	4" (Ø 100 mm)
800×800 mm	2×	2×	4×	1×	-	5×	4×
800×1000 mm	2×	2×	4×	-	1×	5×	4×
800×1200 mm	2×	4×	4×	2×	-	8×	4×

RDF RACKS - TECHNICAL DATA AND DIMENSIONS

Code:	11/2-11/	Load rating		Dimensi	ons (mm)		Dimens	Gross weight		
Code	H (in U)	(kg)	H*	W	D	Useful depth	н	W	D	(kg)
RDF-27-80/80	27	400	1311	800	800	731	1500	840	840	100
RDF-42-80/80	42	800	1978	800	800	731	2160	840	840	134
RDF-45-80/80	45	800	2111	800	800	731	2290	840	840	141
RDF-48-80/80	48	800	2245	800	800	731	2430	840	840	147
RDF-27-80/100	27	400	1311	800	1000	931	1500	840	1040	124
RDF-42-80/100	42	800	1978	800	1000	931	2160	840	1040	157
RDF-45-80/100	45	800	2111	800	1000	931	2290	840	1040	165
RDF-48-80/100	48	800	2245	800	1000	931	2430	840	1040	173
RDF-42-80/120	42	800	1978	800	1200	1131	2160	840	1240	175
RDF-45-80/120	45	800	2111	800	1200	1131	2290	840	1240	198
RDF-48-80/120	48	800	2245	800	1200	1131	2430	840	1240	208

^{*} Height in mm without feet; for feet add 16-45 mm

ORDERING AND SHIPPING INFORMATION: Configure the rack that meets your requirements. The ordering matrix below will help you create a Code. As soon as you have the Code, please contact your Conteg products distributor. Please note that all RDF RACKS ARE DELIVERED FULLY ASSEMBLED and palletized!

FOLLOW THE STEPS TO SET UP THE DESIRED RDF RACK CODE!

An example of a correct Code:

R D 45 80 S 5 Н

1. HEIGHT								
Code	Height (in U)	External height (mm)						
27	27	1311						
42	42	1978						
45	45	2111						
48	48	2245						

2. WIDTH		
Code	Width (mm)	
80	800	

3. DEPTH			
Code Depth Useful (mm) depth (mi		Useful depth (mm)	
8	800	731	
10	1000	931	
12	1200	1131	

4. EXTRUSIONS			
Code	Front pair	Rear pair	Note
0	L	L	L-type undivided extrusions

2

8. REAR DOOR / PANEL LOCK

Swivel handle, DIN profile, universal key 333 Swivel handle, DIN profile, universal key 333, multipoint Swivel handle with combination lock, individual keu Swivel handle with combination lock, individual key, multipoint Electronic door lock with profile half cylinder, cable 4 m Electronic door lock with profile half culinder and built-in card reader

(EM&HID Prox format 125 kHz), 4.5 m cables included Electronic door lock with profile half cylinder, cable 4 m, multipoint

cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included, multipoint

Lock for rear panel, universal key

Lock for rear panel, keyed different

5. FRONT DOOR		
Code	Depth (mm)	
0	Without door ¹	
G	Glass door	
S	Sheet steel door	
Р	Perforated sheet steel door ²	
Т	Glass door with side perforation ³	
W	Vented door (perforation rate 86%) ²	
Α	Vertically divided glass door ⁴	
В	Vertically divided glass door with side perforation ⁶	
С	Vertically divided sheet steel door ⁴	
D	Vertically divided perforated sheet steel door ⁵	
F	Vertically divided vented door (perforation rate 86%) ²	
	Other	

¹No IP protection ²IP20 max.

6. FRONT DOOR LOCK		
Code	Options	
٧	Swivel handle, DIN profile, universal key 333	
W	Swivel handle, DIN profile, universal key 333, multipoint	
G	Swivel handle with combination lock, individual key	
н	Swivel handle with combination lock, individual key, multipoint	
1	Electronic door lock with profile half cylinder, cable 4 m	
2	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included	
3	Electronic door lock with profile half cylinder, cable 4 m, multipoint	
4	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included, multipoint	
	Other	

7. REAR DOOR / PANEL		
Code	Note	
0	Without panel/door¹	
G	Glass door	
S	Sheet steel door	
Р	Perforated sheet steel door ²	
Т	Glass door with side perforation ³	
W	Vented door (perforation rate 86%) ²	
Α	Vertically divided glass door ⁴	
В	Vertically divided glass door with side perforation ⁶	
С	Vertically divided sheet steel door ⁴	
D	Vertically divided perforated sheet steel door ⁵	
F	Vertically divided vented door (perforation rate 86%) ²	
Υ	Rear panel – single piece ^{3,7}	
R	Rear panel – divided, with cable entry ⁷	
Z	Perforated rear panel – single piece8	
	Other	

_		 р
		0
¹ No IP pro	tection	

²IP20 max. 3 IP30 max

9. SIDE PANELS (BOTH SIDES)*		
Code	Note	
0	No side panels	
Α	2 side panels, sheet steel, universal key	
В	1 side panel, sheet steel, universal key	
С	2 side panels, sheet steel, individual key	
D	1 side panel, sheet steel, individual key	
E	2 side panels, sheet steel with perforation, universal key	
F	1 side panel, sheet steel with perforation, universal key	
G	2 side panels, sheet steel with perforation, individual key	
н	1 side panel, sheet steel with perforation, individual key	
	Other	
*Onen side / sides result in no ID protection: side panels wit		

Open side / sides result in no IP protection; side panels with perforation result in max. IP20 protection rating.

10. IP RATING ¹		
Code	Note	
0	IP00	
2	IP20	
3	IP30	
4	IP40	
5	IP54 ³	
Α	A/C ready ²	
According to EN 60 520		

²Ready for A/C unit instal-lation; recommended when cooling planned or required; IP54 when A/C unit installed according to ³ Multipoint lock only

³Open top or bottom results in no IP protection, unless otherwise stated

12. LOAD RATING			
Code	Load rate	Note	Code
	(kg)		В
3	400	27U only	н
5	800	Balanced load	

13. COLOR		
Code	Note	
В	RAL 7035 (light gray)	
н	RAL 9005 (black)	



Configure IT rack on-line www.conteg.com/configurators

³ IP30 max.

⁴ Multipoint lock only

⁵Multipoint lock only, IP20 max.

⁶ Multipoint lock only, IP30 max.

⁴Multipoint lock only

⁵ Multipoint lock only, IP20 max.

⁶Multipoint lock only, IP30 max.

⁷Lock code U or X only

⁸Lock code U or X only, IP20 max.

^{11.} PLATES¹ Ton Plate Α Р Χ Top and bottom single piece plates required for IP54 С Χ Open top - for A/C-ready option (table 10) no top XXX/XXXX² Standard – one piece top plate, segmented bottom plate no bottom3 Open bottom - ready for installation on raised floor or plinth Х no top³ no bottom³ Open top and bottom, for individual plates go to page 21 ¹For more information on plates, see page 21

^{2800×800;} CFC, 800×1000; CHC, 800×1200; CFFC

PREMIUM HOUSING RSB



RSB-48-60/100-3

The PREMIUM Housing RSB rack series is designed for server housing and co-location centers. All types of active or passive 19" equipment can be housed inside.



MAIN ADVANTAGES

- Flexible server-housing rack for collocation and housing data centers
- 2, 3 and 4 individual compartments
- Unmatched 86% door perforation ratio decreases server fan power consumption
- Installable as standalone or in rows with other racks
- Individual cable guides for cable management
- Separation frame for each compartment

COLOR SAMPLER:



RAL 7035

DESCRIPTION:

- Height: 42, 45, 48U (total useful height = 42/45/48 - number of compartments)
- Width: 600, 800 mm
- Depth: 1000 and 1200 mm

Construction

- 1.5 & 2.0 mm sheet steel
- 2-4 compartments; other combinations upon request

Load rating

- 1500 kg maximum load rating per frame
- Load rating 500 kg per 19" compartments; 100 kg per shelf

IP rating

• IP20

• Standard RAL 7035 and 9005

Front and rear doors

- Vented door perforation rate 86%
- Swivel handle lock DIN profile, universal key 333, single point
- Door opening angle 180°
- Easy re-hanging to open on right or left

Side panels

• Removable with locks

Cable entries

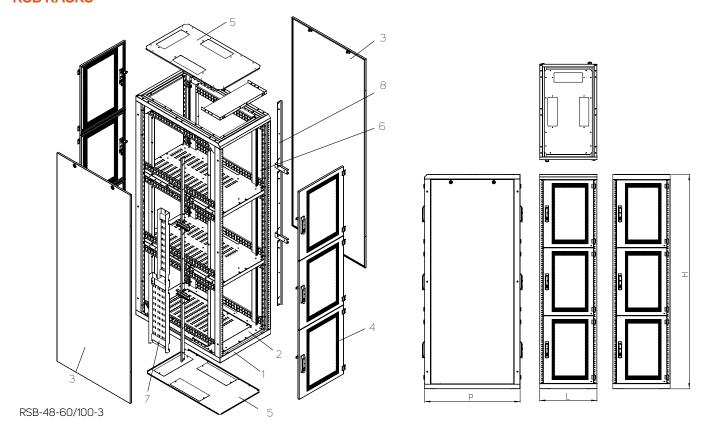
- Top and bottom
- · All cable entries covered with removable blank panels

19" Vertical extrusions

- 2 pairs of sliding 19" vertical L-type (600 mm) or C-type (800 mm) extrusions for each compartment
- P-type extrusions optional for RSB width 800 mm (2 and 3 compartments)

- Installable in blocks with DP-DR-UNI (ordered separately)
- GND/earthing kit included
- Individual cabling for each compartment (ordered separately)
- Air separation frame for all compartments (ordered separately)

RSB RACKS



STA	STANDARD CONFIGURATION (short Code only)*		TIONS
1	Server housing rack frame	7	Set of individual cable guiding
2	3 pieces of high-load shelf	8	Separation frame for each compartment
3	2 removable side panels with locks		
4	6 pieces of vented doors with swivel handle lock		
5	Removable Z-design top and bottom plate with cable entry openings		
6	2 pairs of 19" vertical L-type extrusions for each compartment		
-	GND/earthing kit		
-	28 mounting kits		

^{*} Valid for RSB racks with 3 compartments

RSB RACKS – TECHNICAL DATA AND DIMENSIONS

Codo	H (in U)	Load rating		Dime	Dimensions (mm)		Dimensio	ons incl. packi	ng (mm)	Gross weight (kg)
Code	Code H (III O)		H*	W	D	Useful depth	Н	W	D	(compartments - 2/3/4)
RSB-42-60/100	42	1500	1978	600	1000	931	2160	640	1040	137 / 158 / 181
RSB-45-60/100	45	1500	2111	600	1000	931	2290	640	1040	144 / 165 / 190
RSB-48-60/100	48	1500	2245	600	1000	931	2430	640	1040	151 / 173 / 198
RSB-42-60/120	42	1500	1978	600	1200	1131	2160	640	1240	165 / 188 / 219
RSB-45-60/120	45	1500	2111	600	1200	1131	2290	640	1240	174 / 196 / 230
RSB-48-60/120	48	1500	2245	600	1200	1131	2430	640	1240	184 / 205 / 240
RSB-42-80/100	42	1500	1978	800	1000	931	2160	840	1040	169 / 194 / 224
RSB-45-80/100	45	1500	2111	800	1000	931	2290	840	1040	175 / 202 / 231
RSB-48-80/100	48	1500	2245	800	1000	931	2430	840	1040	179 / 206 / 233
RSB-42-80/120	42	1500	1978	800	1200	1131	2160	840	1240	205 / 234 / 261
RSB-45-80/120	45	1500	2111	800	1200	1131	2290	840	1240	211 / 237 / 276
RSB-48-80/120	48	1500	2245	800	1200	1131	2430	840	1240	220 / 248 / 282

 $^{^{\}star}$ Height in mm without feet; for feet add 16–45 mm

ORDERING AND SHIPPING INFORMATION: Configure the rack that meets your requirements. The ordering matrix below will help you create a Code. As soon as you have the Code, please contact your Conteg products distributor. Please note that all RSB RACKS ARE DELIVERED FULLY ASSEMBLED and palletized!

FOLLOW THE STEPS TO SET UP THE DESIRED RSB RACK CODE!



An example of a correct Code:

/ 100 R S В 48 60 3 В

	1. HEIGHT*								
Code	Code Height (in U) External height (mm)								
42	42	1978							
45	45	2111							
48	48	2245							

2. WIDTH						
Code	Width (mm)					
60	600					
80	800					

3. DEPTH						
Code Depth (mm)						
100	1000					
120	1200					

^{*} Height in mm without feet

4. NUMBER OF COMPARTMENTS						
Code Options						
2	2 compartments					
3	3 compartments					
4	4 compartments					

5. COLOR						
Code	Note					
В	RAL 7035 (light gray)					
н	RAL 9005 (black)					

ACCESSORIES						
Code	Description					
RSB-CM-xx ¹ -y ²	Set for individual cable guiding of RSB racks, top or bottom cable entry ³					
DP-RSB-CW-y ² -xx ¹	Set of air separation frames for RSB racks					

Substitute xx with height of RSB rack

Recommended accessories



Managed PDU

More information on page 108



RAMOS Ultra

More information on page 97

Soussitude XX with neight of KSB Flack

Substitute y with number of compartments

Only RSB 45-2, 42-4 and 45-4 need to define top or bottom cable guiding; add as suffix to the end of code: -T for Top entry, -B for Bottom entry

PREMIUM RACK SERIES PLATES

Conteg's PREMIUM rack series gives you unlimited flexibility when planning the final configuration of your rack. Our product portfolio contains a unique interface between out-of-rack and in-rack cabling systems (such as OptiWay, Top Ducts and High Density Wire Management). Simply choose the plate design (quantity and type of cable entry openings) that perfectly suits your needs. All plates are applicable for RSF and RDF rack series.

MAIN ADVANTAGES

- > PREMIUM rack series with interchangeable top and bottom plates
- > 4 different single-piece top plates
- > 10 types of segmented bottom plates
- Applicable for RSF and RDF rack series (and for RSB racks, with some limitations)
- Compatible with out-of-rack and in-rack cabling systems
- Cabling systems (such as OptiWay, Top Ducts and High Density Wire Managers)

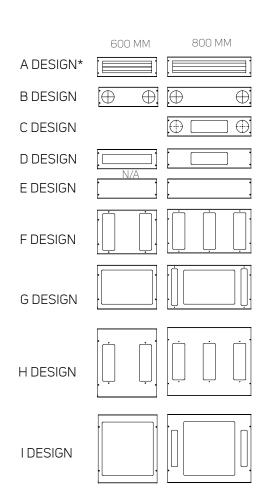
BOTTOM PLATES

Segmented bottom plates consist of 3 or 4 per set, delivered separately in a carton box.

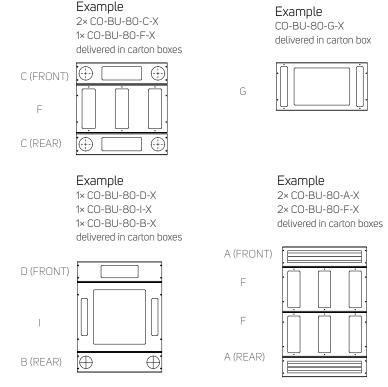
Any plate may be left out (incomplete bottom plate sets applicable – results in no IP protection). Write 0 if the position should be left empty.

Code	RDF/RSF width (mm)	Package
CO-BU-60-X-Y	600	1 pc
CO-BU-80-X-Y	800	1 pc

Single plates can be delivered in carton boxes. Choose suitable design and write the code (A–Z) instead of X. Write B for gray (RAL 7035) or H for black (RAL 9005) instead of Y.



^{*} Divided, with double brush



A, B, C, D, E design: lateral plates

Complete bottom plate always contains two plates of A, B, C, D or E design. Combination of two different plates allowed.

F, G design: central plates for 800 and 1200 mm deep racks

Complete bottom plate always contains one (800 mm deep racks) or two (1200 mm deep racks) plates of F or G design. Combination of two different plates is allowed.

H, I design: central plates for 1000 mm deep racks

Complete bottom cover always contains one plate of H or I design.

Note: All dimensions in mm FREE-STANDING RACKS 21

Bottom plate	For rack width							
design	(mm)	300×100 mm	300×50 mm	4" (Ø 100 mm)	420×280 mm	420×440 mm	76×400 mm	76×600 mm
^	600	-	-	-	-	-	1×	-
Α	800	-	-	-	-	-	-	1×
D	600	-	-	2×	-	-	-	-
В	800	-	-	2×	-	-	-	-
С	800	1×	-	2×	-	-	-	-
D	600	1×	-	-	-	-	-	-
D	800	1×	-	-	-	-	-	-
E	600	-	-	-	-	-	-	-
E	800	-	-	-	-	-	-	-
F	600	2×	-	-	-	-	-	-
-	800	3×	-	-	-	-	-	-
G	600	-	-	-	1×	-	-	-
G	800	-	2×	-	1×	-	-	-
Н	600	2×	-	-	-	-	-	-
П	800	3×	-	-	-	-	-	-
	600	-	-	-	-	1×	-	-
1	800	-	2×	-	-	1×	-	-

⁻ Not available

TOP PLATES

Single-pieces, with four different design options; delivered separately in a carton box, with blanking panels/plastic caps.

Code	RDF/RSF footprint (mm)	Package
CO-TU-60/80-X-Y	600×800	1 pc
CO-TU-60/100-X-Y	600×1000	1 рс
CO-TU-60/120-X-Y	600×1200	1 рс
CO-TU-80/80-X-Y	800×800	1 pc
CO-TU-80/100-X-Y	800×1000	1 рс
CO-TU-80/120-X-Y	800×1200	1 рс

Choose suitable design and write the code: B, I, F or Z (instead of X). Write B for gray (RAL 7035) or H for black (RAL 9005) instead of Y.

B DESIGN	F DES	IGN	I DESI	SN	ΖD	ESIGN
600×800 800×800	600×800	800×800	600×800	800×800	600×800	800×800
600×1000 800×1000	600×1000	800×1000	600×1000	800×1000	600×1000	800×1000
600×1200 800×1200	600×1200	800×1200	600×1200	800×1200	600×1200	800×1200

P and X designs are compatible upon request with IP54 (similar to Z design)

	For rack dimensions	Opening type							
Top plate design	(width × depth)	300×100 mm	300×50 mm	4" (Ø 100 mm)	420×280 mm	420×440 mm			
В	600×800	2×	-	-	1×	_			
	600×1000	2×	-	-	-	1×			
	600×1200	2×	-	-	2×	-			
	800×800	2×	2×	-	1×	-			
	800×1000	2×	2×	-	1×	1×			
	800×1200	2×	4×	-	2×	-			
	600×800	2×	-	4×	-	-			
	600×1000	2×	-	4×	-	-			
_	600×1200	4×	-	4×	-	-			
F	800×800	5×	-	4×	-	-			
	800×1000	5×	-	4×	-	-			
	800×1200	8×	-	4×	-	-			
	600×800	-	-	4×	1×	_			
	600×1000	-	-	4×	-	1×			
	600×1200	-	-	4×	2×	-			
I	800×800	2×	2×	4×	1×	-			
	800×1000	2×	2×	4×	-	1×			
	800×1200	2×	4×	4×	2×				
	600×800	3×	-	-	-	_			
	600×1000	3×	-	-	-	-			
7	600×1200	6×	-	-	-	-			
Z	800×800	3×	-	-	-	-			
	800×1000	3×	-	-	-	_			
	800×1200	6×	-	-	-	-			

– Not available

Recommended accessories



Cable protection DP-KP-KAR4

More information on page 123



Cable protection DP-KP-RB4

More information on page 123



Cable protection DP-KP-KAR

More information on page 123



Cable protection DP-KP-KAR4-D

More information on page 123

OPTIMAL PC ROP



ROP-36-65/60

The OPTIMAL PC ROP is designed to both securely house and safely position a personal computer without user limitation, with the possibility of installing standard 19" equipment.



MAIN ADVANTAGES

- Special solution to securely house PCs
- Three compartments for specific use

COLOR SAMPLER:

RAL 7035

C. I.	1175-118		Dime	nsions (mm)		Dimension	ns including pac	Commission (lea)	
Code	H (in U)	Н*	W	D	Useful depth	н	W	D	Gross weight (kg)
ROP-36-65/60	36	1721	650	600	590	1850	690	660	105

^{*} Height in mm without feet; for feet add 16-45 mm

DESCRIPTION:

Sizes

- Height: 36U
- Width: 650 mm
- Depth: 600 mm

Construction

- Welded-frame design
- 1.5 & 2.0 mm sheet steel

IP rating

• Standard IP30

Load rating

- Frame 400 kg
- Bottom section 300 kg
- Top section 100 kg

• Pull-out shelf - 10 kg

Colors

- Standard RAL 7035
- Other colors optional

Front door

- Tinted security glass door with swivel handle lock - top part (12U)
- Sheet steel door with swivel handle lock – bottom part (22U)
- Door opening angle 180°
- Lockable 2U pull-out shelf

Rear panel

• Removable, with lock

• Sheet steel or perforated sheet steel

Side panels

- Removable, with lock
- · Sheet steel or perforated sheet steel

Cable entries

- In top and bottom plate
- Covered by removable blank panels

Ventilation unit openings

- In top and bottom plate
- All ventilation unit openings covered by removable blank panels

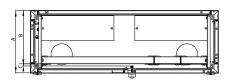
Feet

· Adjustable feet standard

OPTIMAL CABLE MANAGEMENT



ROF-CS-42-90/30 & ROF-CS-42-30/30



The OPTIMAL Cable Management rack is designed to support either horizontal Cross Connect configuration or Consolidation Point topology based on ISO/IEC 11 801, TIA-942 and TIA-568 B standards. This solution is recommended for telecommunication rooms where active components and patch panels need to be separated.

MAIN ADVANTAGES

- Specific system for High Density cabling or Consolidation point
- Flexible arrangement of inner components

DIMENSIONS

Code	Otelst	H (in U)	Dimensions (mm)		
Code	Specification	H (III U)	W	D	
ROF-CS-42-90/30-CWYUA	Main Cable Management rack	42	900	300	
ROF-CS-45-90/30-CWYUA	Main Cable Management rack	45	900	300	
ROF-CS-42-90/40-CWYUA	Main Cable Management rack	42	900	400	
ROF-CS-45-90/40-CWYUA	Main Cable Management rack	45	900	400	
ROF-CS-42-30/30-SVYUA	Extension Cable Management rack	42	300	300	
ROF-CS-45-30/30-SVYUA	Extension Cable Management rack	45	300	300	
ROF-CS-42-30/40-SVYUA	Extension Cable Management rack	42	300	400	
ROF-CS-45-30/40-SVYUA	Extension Cable Management rack	45	300	400	

		Total useful death	19" Extrusions in front position		
Code	Depth of rack	Total useful depth for installed equipment	Rearward usaful depth	Frontward useful depth	
	Α	B+C	В	С	
ROF-CS-xx-90/30	300	264	254	10	
ROF-CS-xx-90/40	400	364	354	10	

COLOR SAMPLER:



RAL 7035

DESCRIPTION:

Sizes

- Height: 42, 45U
- Width of Main rack 900 mm
- Width of Extended rack 300 mm
- Depth: 300 or 400 mm

Construction

- Welded-frame design
- 1.5 mm sheet steel
- Free-standing solution (attach to the wall or connect together)

IP rating

• Standard IP30

19" Vertical extrusions

- Adjustable positioning of 19" extrusions front to rear and left, central or right
- · Pair of patch cord management panels, placement upon request in combination with 19" extrusions
- When 19" extrusions are in front position of Main rack:

- Useful rearward depth is 254 mm for 300 mm and 354 mm for 400 mm depth of ROF-CS; when cable management accessories installed useful depth is different
- Useful frontward space limited by multipoint lock and ranges between 10 and 15 mm
- Extended rack can be attached to main Cable Management Rack at both sides

- Standard RAL 7035 and 9005
- · Other colors available

Front door

- Main rack vertically divided sheet steel front doors, multipoint lock; rear and side panels with lock
- Extended rack sheet steel front door, single point lock; rear and side panels with lock

Rear and side panels

· Removable sheet steel door with lock

Cable entries

- In top and bottom plate
- Covered by removable blank metal and plastic

· Adjustable feet standard

Cable management

- Management panels can be equipped with cable management accessories
- Fibre storage spools HDWM-FSS-50 or HDWM-FSS-100 (4× HDWM-FSS-50 included)
- Plastic cable brackets VO-xxx
- Metal cable brackets VO-Wx-xx/xx

Package includes

- Main unit: rack, 19" frame, 2× management panels, 4× cable spools HDWM-FSS-50
- Extension unit: rack, 1× management panel, 2× cable spools HDWM-FSS-50

	ISEVEN RACK SERIES							
	RI7	RI7 SERVER	Flex RM7	Flex SERVER				
Comparison	Welded-frame	Welded-frame	Demountable frame	Demountable frame				
Companson	Assembled	Assembled	Unassembled	Unassembled				
	1.5 and 2 mm sheet steel							
	See page 27	See page 32	See page 34	See page 38				
Appropriate use								
Server rack	++	+++	+	+++				
Data rack	+++	+++	+++	+++				
Cable rack	+++	++	+++	++				
Data centers	+	++	+	++				
Balanced load rating								
Jp to 300 kg	yes	-	yes	-				
Jp to 500 kg	yes	-	yes	-				
Jp to 1000 kg	-	yes	-	yes				
Prating								
P20	yes	yes	yes	yes				
P30	yes	yes	yes	yes				
Baying								
Side	yes	yes	yes	yes				
Fargeted cooling	3	3	3	3				
Door perforation 86%	yes	yes	yes	yes				
Ventilation units	yes	yes	yes	yes				
Side mount CoolTeg								
	yes	yes	yes	yes				
Cabling								
Changeable internal configuration Supports HDWM (Cat. 6A	yes	yes	yes	yes				
and higher)	yes	yes	yes	yes				
Supports OptiWay	yes	yes	yes	yes				
Supports TopDucts	yes	yes	yes	yes				
Size								
5U	yes	-	yes	-				
21U	yes	-	yes	-				
27U	yes	-	yes	-				
33U	yes	-	yes	-				
42U	yes	yes	yes	yes				
45U	yes	yes	yes	yes				
48U	yes	-	yes	-				
Colors								
Black RAL 9005	yes	yes	yes	yes				
ight gray RAL 7035	yes	yes	yes	yes				
ocking system	900	9-0	900	953				
Singlepoint	Hoc	LIGG	LIOC	HOS				
	yes	yes	yes	yes				
Security options								
Access control system	yes	yes	yes	yes				
Airflow management	yes	yes	yes	yes				
Monitoring indoor	yes	yes	yes	yes				

General comparisons of IT rack series; for technical details see appropriate catalog pages.

ISEVEN RI7



RI7-42-80/80

The iSEVEN RI7 rack has been designed to provide users with an unmatched ratio between price, utility value and quality. Ideal for installers and end-users who want to spend less time choosing between various options.



MAIN ADVANTAGES

- Universal rack for standard dailu IT use
- Available in 35 dimensions
- Pre-configured rack, with many other options

COLOR SAMPLER:



RAL 7035

DESCRIPTION:

Sizes

- Height: 15, 21, 27, 33, 42, 45, 48U
- Width: 600, 800 mm
- Depth: 600, 800, 1000 mm

- Welded-frame design
- 1.5 & 2 mm sheet steel

Load rating

- 15 33U: 300 kg
- 42 48U: 500 kg

19" Vertical extrusions

• 2 pairs of sliding 19" extrusions, adjustable from inside

IP rating

• Standard IP30

Colors

• Standard RAL 7035 and 9005

Front door

- Security glass door with swivel handle lock -DIN profile, universal key 333
- Optional: sheet steel door, perforated door or vented door – perforation rate 86%
- Easy re-hanging to open on right or left
- Door opening angle 180°

Rear panel

- Removable, with knock-out cable entry and
- Optional: sheet steel door, perforated door or vented door – perforation rate 86%

Side panels

• Removable, with locks

Knock-out openings - cable entry

• Universal size 300×100 mm - rear side of top and bottom plate and rear panel

- Universal openings can be covered by blank panels (ordered separately)
- Extended size 500×115 mm both sides of top and bottom plate. Consists of 3 parts - 300×115 mm and $2 \times -100 \times 115$ mm, each of which can be opened individually.
- · Extended opening can be covered by blank panel or standard cable brush - middle opening. Opening can be protected by rubber edge piece (DP-KP-LEM-6) or brushes (DP-KP-KAR-6).

Knock-out openings - ventilation unit installation

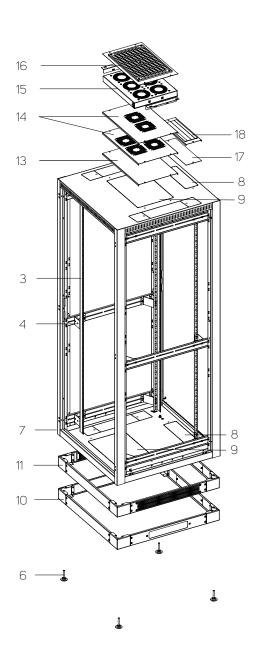
- Standard size 480×280 mm (1000 mm deep - 480×440 mm)
- Available in top and bottom plate
- Can be covered with blank panels (ordered separately)

Adjustable Feet

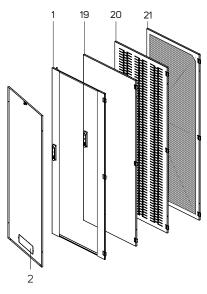
Code	H (in U)	Load rating (kg)		Dimensions (mm) Dimensions including packing (mm)				Gross weight (kg)		
Code	11(1110)	Load facility (kg)	H*	W	D	Useful depth	н	W	D	01000 1101 g 111 (11 g /
RI7-15-60/60	15	300	778	600	600	590	913	640	640	43
RI7-21-60/60	21	300	1045	600	600	590	1179	640	640	52
RI7-27-60/60	27	300	1311	600	600	590	1446	640	640	61
RI7-33-60/60	33	300	1578	600	600	590	1713	640	640	72
RI7-42-60/60	42	500	1978	600	600	590	2113	640	640	83
RI7-45-60/60	45	500	2111	600	600	590	2246	640	640	88
RI7-48-60/60	48	500	2245	600	600	590	2380	640	640	95
RI7-15-60/80	15	300	778	600	800	790	913	640	840	54
RI7-21-60/80	21	300	1045	600	800	790	1179	640	840	61
RI7-27-60/80	27	300	1311	600	800	790	1446	640	840	70
RI7-33-60/80	33	300	1578	600	800	790	1713	640	840	81
RI7-42-60/80	42	500	1978	600	800	790	2113	640	840	94
RI7-45-60/80	45	500	2111	600	800	790	2246	640	840	100
RI7-48-60/80	48	500	2245	600	800	790	2380	640	840	106
RI7-15-60/100	15	300	778	600	1000	990	913	640	1040	65
RI7-21-60/100	21	300	1045	600	1000	990	1179	640	1040	70
RI7-27-60/100	27	300	1311	600	1000	990	1446	640	1040	77
RI7-33-60/100	33	300	1578	600	1000	990	1713	640	1040	92
RI7-42-60/100	42	500	1978	600	1000	990	2113	640	1040	108
RI7-45-60/100	45	500	2111	600	1000	990	2246	640	1040	115
RI7-48-60/100	48	500	2245	600	1000	990	2380	640	1040	120
RI7-15-80/80	15	300	778	800	800	790	913	840	840	65
RI7-21-80/80	21	300	1045	800	800	790	1179	840	840	73
RI7-27-80/80	27	300	1311	800	800	790	1446	840	840	84
RI7-33-80/80	33	300	1578	800	800	790	1713	840	840	95
RI7-42-80/80	42	500	1978	800	800	790	2113	840	840	116
RI7-45-80/80	45	500	2111	800	800	790	2246	840	840	120
RI7-48-80/80	48	500	2245	800	800	790	2380	840	840	124
RI7-15-80/100	15	300	778	800	1000	990	913	840	1040	74
RI7-21-80/100	21	300	1045	800	1000	990	1179	840	1040	82
RI7-27-80/100	27	300	1311	800	1000	990	1446	840	1040	90
RI7-33-80/100	33	300	1578	800	1000	990	1713	840	1040	108
RI7-42-80/100	42	500	1978	800	1000	990	2113	840	1040	125
RI7-45-80/100	45	500	2111	800	1000	990	2246	840	1040	130
RI7-48-80/100	48	500	2245	800	1000	990	2380	840	1040	139

 $^{^{\}star}$ Height in mm without feet; for feet add 16-45 mm

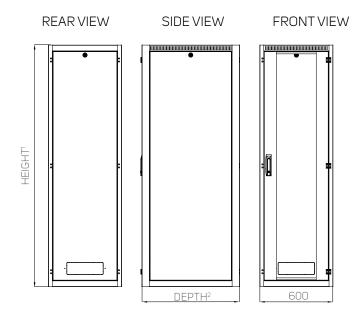
ISEVEN RI7 RACKS

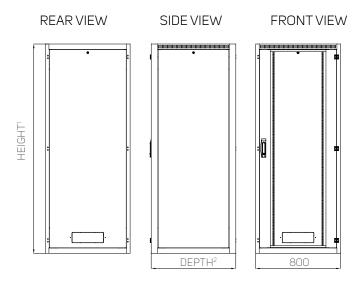


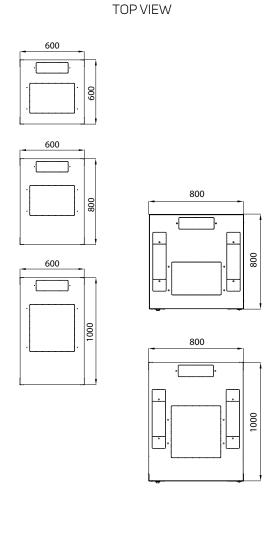




	STANDARD CONFIGURATION (short Code only)		OPTIONS
1	Glass door	10	Plinth
2	Rear panel with knock-out cable entry	11	Plinth with filter
3	4 pcs of 19" vertical extrusions	13	Blank panel
4	Holders for vertical extrusions	14	Blank panels for ventilation unit openings
6	Adjustable feet	15	Ventilation unit
7	Frame of rack	16	Perforated gland plate
8	Top and bottom knock-out openings for cable entry	17	Blank panel for cable entry openings
9	Top and bottom knock-out openings for ventilation unit	18	Dust-proof panel with brush for cable entry openings
22	Side panel	19	Sheet steel door
-	GND/earthing kit	20	Perforated sheet steel door
-	28 mounting kits	21	Vented door – perforation 86%









15U/778 mm

21U/1044 mm

27U/1311 mm

33U/1578 mm

42U/1978 mm

45U/2111 mm

48U/2245 mm

² Available depths:

for width 600 mm: 600, 800, 1000 mm for width 800 mm: 800, 1000 mm

 $^{\rm 3}$ When rear doors applied (rear panel standard), max. angle 180 degrees

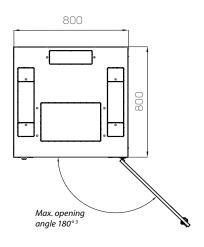
Ventilation unit openings

420×280 mm (depth 1000 mm - 420×440 mm)

Cable entries

300×100 mm 1× on top and bottom – rear 500×115 mm 2× on top and bottom – side for width 800 mm

EXAMPLE - OPENED DOOR



Note: All dimensions in mm

ORDERING AND SHIPPING INFORMATION: Configure the rack that meets your requirements. The ordering matrix below will help you create a Code. As soon as you have the Code, please contact your Conteg products distributor. Please note that all RI7 RACKS ARE DELIVERED FULLY ASSEMBLED and palletized!

FOLLOW THE STEPS TO SET UP THE DESIRED RI7 RACK CODE!

An example of a correct Code:

R 45 60 G S 0

	1. HEIGHT					
Code	Height (in U)	External height (mm)				
15	15	778				
21	21	1045				
27	27	1311				
33	33	1578				
42	42	1978				
45	45	2111				
48	48	2245				

2. WIDTH			3. DEPTH	
Code	Width (mm)	Code	Depth (mm)	Useful depth
60	600			(mm)
80	800	6	600	590
		8	800	790
		10	1000	990

4. EXTRUSIONS					
Code	Front pair	Rear pair	Note		
0	L	L	L-type undivided extrusions		

	5. FRONT DOOR				
Code	Depth (mm)				
0	Without door ¹				
G	Glass door				
s	Sheet steel door				
Р	Perforated sheet steel door ²				
W	Vented door (perforation rate 86%) ²				
	Other				

9. SIDE PANELS (BOTH SIDES)*

No side panels A 2 side panels, sheet steel, universal key Other

6. FRONT DOOR LOCK				
Code	Depth (mm)			
V	Swivel handle DIN profile, universal key, 333			
	Other			

7. RE	7. REAR DOOR / PANEL			
Code	NOTE			
0	Without panel/door ¹			
G	Glass door			
S	Sheet steel door			
Р	Perforated sheet steel door ²			
W	Vented door (perforation rate 86%) ²			
Y	Rear panel – single piece			
	Other			

8. REAR DOOR / PANEL LOCK				
Code	OPTIONS			
V	Swivel handle DIN profile, universal key, 333			
U	Lock for rear panel, universal key			
	Other			

0

10. IP RATING ¹					
Code	Note				
0	IPO0				
2	IP20				

IP30

¹According to EN 60 529

11. PLATES				
Code Options				
0	Top & bottom plates – Integral			

¹No IP protection

12. LOAD RATING					
Code	Load rate (kg)	Note			
3	300	for rack heights 15–33U			
4	500	for rack heights 42–48U			

* Open side/sides result in no IP protection



Configure IT rack on-line www.conteg.com/configurators

¹No IP protection

²IP20 max.

^{13.} COLOR RAL 7035 (light gray) RAL 9005 (black)

ISEVEN SERVER



RI7-42-80/100-S2

The iSEVEN SERVER rack is ideal for anyone who needs to house servers properly. The iSEVEN SERVER combines our day-to-day rack with the highly valuable features of our RSF pure server



MAIN ADVANTAGES

- Server rack for standard IT hardware up to 1000 kg
- Unmatched 86% door perforation ratio decreases server fan power consumption
- Extrusions support Zero U (OU) PDU

COLOR SAMPLER:

✓ RAL 9005

RAL 7035

DESCRIPTION:

Sizes

- Height: 42U, 45U
- Width: 600, 800 mm
- Depth: 1000, 1200 mm

Construction

- Welded-frame design
- 1.5 & 2 mm sheet steel

Load rating

• 42-45U: 1000 kg

19" Vertical extrusions

• A-type extrusions, non-divided (600 or 800 mm wide) extrusions without horizontal holders (for 800 mm provide additional 24U of installation space); adjustable from inside, blank panels not included.

IP rating

Standard IP20

Colors

• Standard RAL 7035 and 9005

Front door

- Vented door perforation rate 86%
- Swivel handle lock, DIN profile, universal key 333, singlepoint

Rear door

- Vented door perforation rate 86%
- Swivel handle lock, DIN profile, universal key 333, singlepoint

Side panels

• Removable, with locks

Knock-out openings - cable entry

- Universal size 300×100 mm rear side of top and bottom plate and rear panel
- Universal openings can be covered with blank panels (ordered separately)

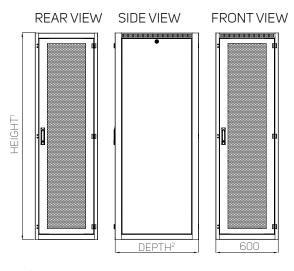
- Extended size 500×115 mm only for 800 mm width - both sides of top and bottom plate. Consists of 3 parts - 300×115 mm and $2x - 100 \times 115$ mm, each of which can be opened individually.
- Extended opening can be covered by a blank panel or standard cable brush - middle opening. Opening can be protected by rubber edge piece (DP-KP-LEM-6) or brush (DP-KP-KAR-6).

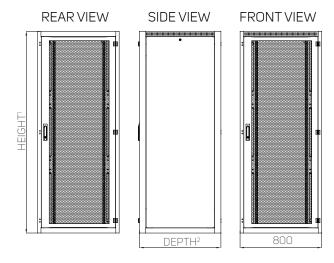
Knock-out openings – ventilation unit installation

- Standard size 420×440 mm for 1000 mm depth $-420 \times 280 \text{ mm}$ (2×) for 1200 mm depth
- Available in top and bottom plate
- Can be covered with blank panels (ordered separately)

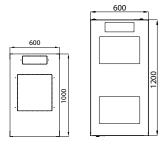
Adjustable Feet

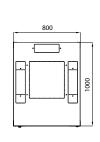
ISEVEN SERVER RACKS

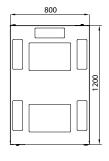




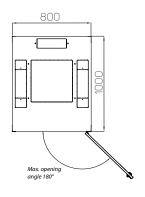
TOP VIEW







EXAMPLE - OPENED DOOR



- ¹ Available heights:
 - for width 600 mm: 42U/1978 mm, 45U/2111 mm
 - for width 800 mm: 42U/1978 mm, 45U/2111 mm
- ² Available depths:
- for width 600 mm: 1000, 1200 mm - for width 800 mm: 1000, 1200 mm

Ventilation unit openings

1000 mm rack depth – 420×440 mm 1200 mm rack depth – 420×280 mm (2×)

Cable entries

300×100 mm 1×on top and bottom – rear (for 600 mm width)

300×100 mm 5×on top and bottom – rear (for 600 mm width, 1200 mm deep rack)

500×115 mm 2×on top and bottom – side (for 800 mm width)

ISEVEN SERVER - TECHNICAL DATA AND DIMENSIONS

Code	Height (in U)	Width (mm)	Depth (mm)	Color
RI7-42-60/100-S1-B	42	600	1000	RAL 7035
RI7-42-60/100-S1-H	42	600	1000	RAL 9005
RI7-42-60/120-S1-B	42	600	1200	RAL 7035
RI7-42-60/120-S1-H	42	600	1200	RAL 9005
RI7-45-60/100-S1-B	45	600	1000	RAL 7035
RI7-45-60/100-S1-H	45	600	1000	RAL 9005
RI7-45-60/120-S1-B	45	600	1200	RAL 7035
RI7-45-60/120-S1-H	45	600	1200	RAL 9005
RI7-42-80/100-S2-B	42	800	1000	RAL 7035
RI7-42-80/100-S2-H	42	800	1000	RAL 9005
RI7-42-80/120-S2-B	42	800	1200	RAL 7035
RI7-42-80/120-S2-H	42	800	1200	RAL 9005
RI7-45-80/100-S2-B	45	800	1000	RAL 7035
RI7-45-80/100-S2-H	45	800	1000	RAL 9005
RI7-45-80/120-S2-B	45	800	1200	RAL 7035
RI7-45-80/120-S2-H	45	800	1200	RAL 9005

ISEVEN FLEX RM7



RM7-42-60/100

Flex RM7 racks have been designed for users whose access path constraints do not allow for installation of the iSEVEN rack series (RI7) with a welded design. iSEVEN Flex racks are delivered unassembled for easy transportation to the installation site, where they can be assembled quickly and easily.





MAIN ADVANTAGES

- Universal rack for standard daily use
- Unassembled version for transport to unaccessible spaces

COLOR SAMPLER:

✓ RAL 9005

RAL 7035

DESCRIPTION:

Sizes

- Height: 21, 27, 42, 45U
- Width: 600 and 800 mm
- Depth: 800 and 1000 mm

Construction

- Robust frame design, joined by 32 M6×12 screws
- Delivered unassembled; assembly at installation site
- Quick and easy assembly
- 1.5 & 2 mm sheet steel

Load rating

- 21 & 27U: 300 kg
- 42 & 45U: 500 kg

19" Vertical extrusions

• 2 pairs of sliding 19" extrusions, adjustable from inside

IP rating

• Standard IP30

Colors

• Standard RAL 7035 and 9005

- Security glass door with swivel handle lock -DIN profile, universal key 333
- Optional: sheet steel door, perforated door or vented door - perforation rate 86%
- Easy re-hanging to open on right or left
- Door opening angle 180°

Rear panel

- Removable, with knock-out cable entry and
- Optional: sheet steel door, perforated door or vented door - perforation rate 86%

Side panels

• Removable, with locks

Knock-out openings - cable entry

• Universal size 300×100 mm – rear side of top and bottom plate and rear panel

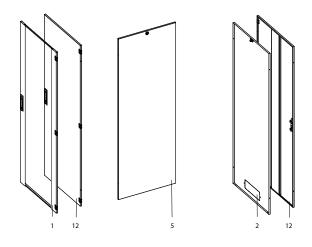
- Universal openings can be covered with blank panels (ordered separately)
- Extended size 500×115 mm both sides of top and bottom plate. Consists of three parts - $300 \times 115 \text{ mm}$ and $2 \times -100 \times 115 \text{ mm}$, each of which can be opened individually.
- Extended opening can be covered with blank panel or standard cable brush - middle opening. Opening can be protected by rubber edge piece (DP-KP-LEM-6) or brushes (DP-KP-KAR-6).

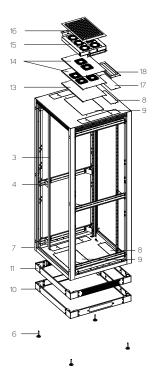
Knock-out openings – ventilation unit

- Standard size 480×280 mm (1000 mm deep - 480×440 mm)
- Available in top and bottom plate
- Can be covered with blank panels (ordered separately)

Adjustable Feet

ISEVEN FLEX RM7 RACKS





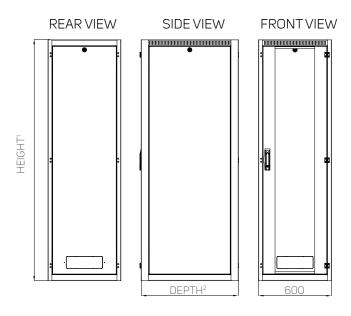
	STANDARD CONFIGURATION		OPTIONS
1	Front glass door with swivel handle lock	10	Plinth
2	Rear sheet steel panel with knock-out opening for cable entry and lock	11	Plinth with filter
3	4 pcs of 19" vertical extrusions	12	Sheet steel door
4	Holders for vertical extrusions	14	Blank panels for ventilation unit openings
5	1 pair of side sheet steel panels with lock	15	Perforated gland plate
6	Adjustable feet	16	Ventilation unit
7	Rack frame	17	Connecting kit with filter for ventilation unit
8	Top and bottom knock-out openings for cable entry	18	Blank panel for cable entry openings
9	Top and bottom knock-out openings for ventilation unit	19	Dust-proof panel with brush for cable entry openings
-	GND/earthing kit		
-	28 mounting kits		

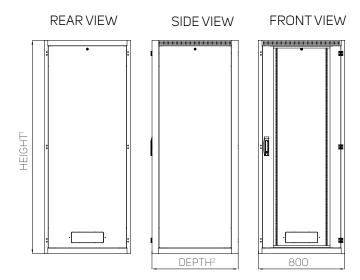
ISEVEN FLEX RM7 RACK - TECHNICAL DATA AND DIMENSIONS

Code -		Rack dimensions (mm)		Package dimensions (mm)						
Standard configuration	H (in U)	н*	W	D	Useful depth	Package 1 RM7-CO-xx/yy²	Package 2 RM7-TB-yy/zz²	Package 3 RM7-DO-xx/yy²	Package 4 RM7-SP-xx/zz²	Package 5 RM7-HVE-yy/zz²
RM7-21-60/60-X	21	1044	600	600	590	105×140×1165	630×620×135	550×70×955	520×990×85	-
RM7-27-60/60-X	27	1311	600	600	590	105×140×1430	630×620×135	550×70×1255	520×1255×85	-
RM7-42-60/60-X	42	1978	600	600	590	105×140×2100	630×620×135	550×70×1890	520×1920×85	185×75×100
RM7-45-60/60-X	45	2111	600	600	590	105×140×2230	630×620×135	550×70×2020	520×2055×85	185×75×100
RM7-21-60/80-X	21	1044	600	800	790	105×140×1165	630×820×135	550×70×955	720×990×85	-
RM7-27-60/80-X	27	1311	600	800	790	105×140×1430	630×820×135	550×70×1255	720×1255×85	-
RM7-42-60/80-X	42	1978	600	800	590	105×140×2100	630×820×135	550×70×1890	720×1920×85	185×75×100
RM7-45-60/80-X	45	2111	600	800	790	105×140×2230	630×820×135	550×70×2020	720×2055×85	185×75×100
RM7-27-60/100-X	27	1311	600	1000	990	105×140×1430	630×1020×135	550×70×1255	920×1255×85	-
RM7-42-60/100-X	42	1978	600	1000	990	105×140×2100	630×1020×135	550×70×1890	920×1920×85	185×75×100
RM7-45-60/100-X	45	2111	600	1000	990	105×140×2 230	630×1 020×135	550×70×2020	920×2 055×85	185×75×100
RM7-27-80/80-X	27	1311	800	800	790	105×140×1430	1005×820×135	750×70×1255	720×1255×85	-
RM7-42-80/80 -X	42	1978	800	800	790	105×140×2100	1005×820×135	750×70×1890	720×1920×85	185×75×100
RM7-45-80/80-X	45	2111	800	800	790	105×140×2230	1005×820×135	750×70×2020	720×2055×85	185×75×100
RM7-27-80/100-X	27	1311	800	1000	990	105×140×1430	1005×1020×135	750×70×1255	720×1255×85	-
RM7-42-80/100-X	42	1978	800	1000	990	105×140×2100	1005×1020×135	750×70×1890	920×1920×85	185×75×100
RM7-45-80/100-X	45	2111	800	1000	990	105×140×2230	1005×1020×135	750×70×2020	920×2055×85	185×75×100

 $^{^{\}star}$ Height in mm without feet; for feet add 16–45 mm

 $^{^1}$ Substitute X with desired color: B - 7035 (light gray), H - 9005 (black) 2 xx - Rack height; yy - Rack width; zz - Rack depth







- for width 600 mm: 21U/1044 mm, 27U/1311 mm, 42U/1978 mm, 45U/2111 mm
- for width 800 mm: 27U/1311 mm, 42U/1978 mm, 45U/2111 mm
- ² Available depths:
 - for width 600 mm: 600, 800, 1000 mm
- for width 800 mm: 800, 1000 mm
- $^{\rm 3}$ When rear doors applied (rear panel standard) max. angle is 180°

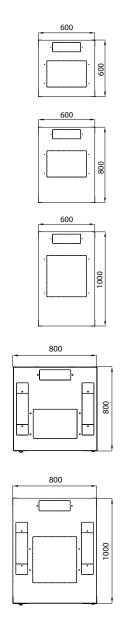
Ventilation unit openings

420×280 mm (depth 1000 mm - 420×440 mm)

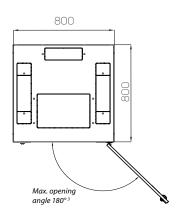
Cable entries

300×100 mm 1× on top and bottom – rear 500×115 mm 2× on top and bottom – side (for 800 mm width)

TOP VIEW



EXAMPLE -OPENED DOOR



ORDERING AND SHIPPING INFORMATION: Configure the rack that meets your requirements. You can choose a standard or modified configuration for your iSEVEN Flex RM7 rack. The ordering matrix below will help you create a Code. As soon as you have the Code, please contact your Conteg products distributor. Please note that all iSEVEN Flex RM7 RACKS ARE DELIVERED UNASSEM-BLED in 3-5 carton boxes!

ISEVEN FLEX RM7 RACK - STANDARD CONFIGURATION ORDERING TABLE

Code - Standard configuration ¹	Column code	Top and bottom plate codes	Door code	Side panel code	Holder code
RM7-21-60/60-X	RM7-CO-21/60-X	RM7-TB-60/60-X	RM7-D0-21/60-X	RM7-SP-21/60-X	-
RM7-27-60/60-X	RM7-CO-27/60-X	RM7-TB-60/60-X	RM7-DO-27/60-X	RM7-SP-27/60-X	-
RM7-42-60/60-X	RM7-CO-42/60-X	RM7-TB-60/60-X	RM7-D0-42/60-X	RM7-SP-42/60-X	RM7-HVE-60/60
RM7-45-60/60-X	RM7-CO-45/60-X	RM7-TB-60/60-X	RM7-D0-45/60-X	RM7-SP-45/60-X	RM7-HVE-60/60
RM7-21-60/80-X	RM7-CO-21/60-X	RM7-TB-60/80-X	RM7-D0-21/60-X	RM7-SP-21/80-X	-
RM7-27-60/80-X	RM7-CO-27/60-X	RM7-TB-60/80-X	RM7-D0-27/60-X	RM7-SP-27/80-X	-
RM7-42-60/80-X	RM7-CO-42/60-X	RM7-TB-60/80-X	RM7-D0-42/60-X	RM7-SP-42/80-X	RM7-HVE-60/80
RM7-45-60/80-X	RM7-CO-45/60-X	RM7-TB-60/80-X	RM7-D0-45/60-X	RM7-SP-45/80-X	RM7-HVE-60/80
RM7-27-60/100-X	RM7-CO-27/60-X	RM7-TB-60/100-X	RM7-D0-27/60-X	RM7-SP-27/100-X	-
RM7-42-60/100-X	RM7-CO-42/60-X	RM7-TB-60/100-X	RM7-D0-42/60-X	RM7-SP-42/100-X	RM7-HVE-60/100
RM7-45-60/100-X	RM7-CO-45/60-X	RM7-TB-60/100-X	RM7-D0-45/60-X	RM7-SP-45/100-X	RM7-HVE-60/100
RM7-27-80/80-X	RM7-CO-27/80-X	RM7-TB-80/80-X	RM7-D0-27/80-X	RM7-SP-27/80-X	-
RM7-42-80/80 -X	RM7-CO-42/80-X	RM7-TB-80/80-X	RM7-D0-42/80-X	RM7-SP-42/80-X	RM7-HVE-80/80
RM7-45-80/80-X	RM7-CO-45/80-X	RM7-TB-80/80-X	RM7-D0-45/80-X	RM7-SP-45/80-X	RM7-HVE-80/80
RM7-27-80/100-X	RM7-CO-27/80-X	RM7-TB-80/100-X	RM7-D0-27/80-X	RM7-SP-27/100-X	-
RM7-42-80/100-X	RM7-CO-42/80-X	RM7-TB-80/100-X	RM7-D0-42/80-X	RM7-SP-42/100-X	RM7-HVE-80/100
RM7-45-80/100-X	RM7-CO-45/80-X	RM7-TB-80/100-X	RM7-D0-45/80-X	RM7-SP-45/100-X	RM7-HVE-80/100

¹Substitute X with desired color: B – 7035 (light gray), H – 9005 (black)

ISEVEN FLEX RM7 - ITEM OVERVIEW OF INDIVIDUAL BOXES

Code ¹	Package includes
RM7-CO-xx/yy	4× column and 4× 19" vertical extrusion
RM7-TB-yy/zz	Top and bottom cover plate, 4× bracket for vertical extrusions
RM7-DO-xx/yy	Front door and rear panel (package contents may differ for customized versions)
RM7-SP-xx/zz	2× side panels
RM7-HVE-yy/zz ²	2× bracket for vertical extrusions

¹xx – Rack height; yy – Rack width; zz – Rack depth

² For 42U and 45U racks only, which require 6 brackets for vertical extrusions

Cover (modifications from standard configuration	Itemized iSEVEN Flex rack Codes						
are written in bold script)	Package 1	Package 2	Package 3	Package 4	Package 5		
Front glass door, rear sheet steel door, 2 side panels	RM7-CO-xx/yy-X	RM7-TB-yy/zz-X	RM7-DO-xx/ yy-GVSV-X	RM7-SP-xx/zz-X	RM7-HVE-yy/zz ¹		
Front sheet steel door, rear sheet steel panel, 2 side panels	RM7-CO-xx/yy-X	RM7-TB-yy/zz-X	RM7-DO-xx/ yy-SVYU-X	RM7-SP-xx/zz-X	RM7-HVE-yy/zz ¹		
Front sheet steel door, rear sheet steel door, 2 side panels	RM7-CO-xx/yy-X	RM7-TB-yy/zz-X	RM7-DO-xx/ yy-SVSV-X	RM7-SP-xx/zz-X	RM7-HVE-yy/zz ¹		
Front glass door, rear sheet steel panel, without side panels	RM7-CO-xx/yy-X	RM7-TB-yy/zz-X	RM7-DO-xx/yy-X	-	RM7-HVE-yy/zz ¹		
Front glass door, rear sheet steel door, without side panels	RM7-CO-xx/yy-X	RM7-TB-yy/zz-X	RM7-DO-xx/ yy-GVSV-X	-	RM7-HVE-yy/zz ¹		
Front sheet steel door, rear sheet steel panel, without side panels	RM7-CO-xx/yy-X	RM7-TB-yy/zz-X	RM7-DO-xx/ yy-SVYU-X	-	RM7-HVE-yy/zz ¹		
Front sheet steel door, rear sheet steel door, without side panels	RM7-CO-xx/yy-X	RM7-TB-yy/zz-X	RM7-DO-xx/ yy-SVSV-X	-	RM7-HVE-yy/zz ¹		

Package 5 (PM7-HVE-yy/zz) is available for iSEVEN Flex racks 42 and 45U high only. Do not choose this package for racks 21U and 27U in height.



Configure IT rack on-line www.conteg.com/configurators

ISEVEN FLEX SERVER



RM7-42-80/10A-S2

The iSEVEN Flex SERVER rack is ideal for anyone who needs to house servers properly. The iSEVEN Flex SERVER combines our day-to-day rack with the highly valuable features of our RSF pure server rack. Comes with a mounted frame (delivered unassembled).



MAIN ADVANTAGES

- Server rack for standard IT hardware up to 1000 kg
- Unmatched 86% door perforation ratio decreases server fan power consumption
- Unassembled version for transport to unaccessible spaces

COLOR SAMPLER:



RAL 7035

DESCRIPTION:

Sizes

- Height: 42U
- Width: 600, 800 mm
- Depth: 1000 mm

Construction

- Robust frame design, joined by 32 M6×12 screws
- Delivered unassembled; assembly at installation site
- · Quick and easy assembly
- 1.5 & 2 mm sheet steel

Load rating

• 42U: 1000 kg

19" Vertical extrusions

 A-type extrusions, non-divided (600 or 800 mm wide) extrusions without horizontal holders (for 800 mm provide additional 24U of installation space); adjustable from inside, blank panels not included.

IP rating

Standard IP20

• Standard RAL 7035 and 9005

- Vented door perforation rate 86%
- Swivel handle lock, DIN profile, universal key 333, singlepoint

Rear door

- Vented door perforation rate 86%
- · Swivel handle lock, DIN profile, universal key 333, singlepoint

Side panels

• Removable, with locks

Knock-out openings - cable entry

• Universal size 300×100 mm – rear side of top and bottom plate

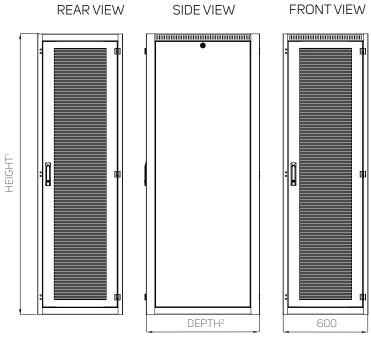
- Universal openings can be covered with blank panels (ordered separately)
- Extended size 500×115 mm for 800 mm width only - both sides of top and bottom plate. Consists of 3 parts - 300×115 mm and $2x - 100 \times 115$ mm, each of which can be opened individually.
- Extended opening can be covered with blank panel or standard cable brush - middle opening. Opening can be protected by rubber edge piece (DP-KP-LEM-6) or brush (DP-KP-KAR-6).

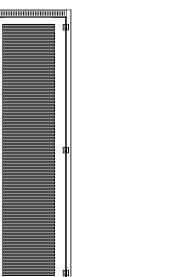
Knock-out openings - ventilation unit installation

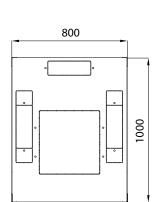
- Standard size 420×440 mm
- Available in top and bottom plate
- Can be covered with blank panels (ordered separately)

Adjustable Feet

ISEVEN FLEX SERVER RACKS

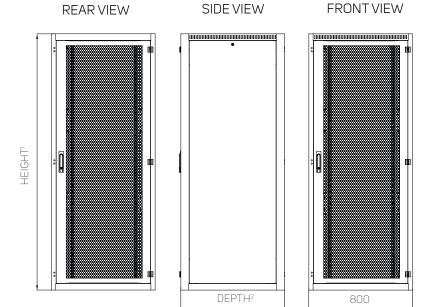






TOP VIEW

600



EXAMPLE - OPENED DOOR

- ¹ Available heights:
- for width 600 mm: 42U/1978 mm
- for width 800 mm: 42U/1978 mm
- ² Available depths:
- for width 600 mm: 1000 mm
- for width 800 mm: 1000 mm

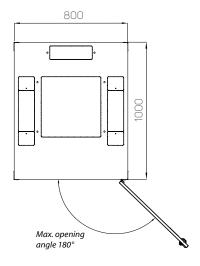
Ventilation unit openings

420×440 mm

Cable entries

300×100 mm 1× on top and bottom – rear

500×115 mm 2× on top and bottom – side (for 800 mm width)



ORDERING AND SHIPPING INFORMATION: Choose the iSEVEN Flex SERVER rack meeting your equirements from the table below. Each configuration comes with a separate list of components. After choosing the proper configuration and Codes, please contact your Conteg products distributor. Please note that all iSEVEN Flex SERVER RACKS ARE DELIVERED UNASSEMBLED (in 4 separate boxes)!

ISEVEN FLEX SERVER STANDARD CONFIGURATION

- Top and bottom covers
- 4 columns
- 2 pairs of 19" A-profile sliding vertical extrusions
- 2 pairs of A-profile vertical extrusion holders
- Front vented door perforation rate 86%, with swivel handle lock
- Rear vented door perforation rate 86%, with swivel handle lock
- 1 pair of sheet steel side panels, with locks
- 4 adjustable feet
- · GND / earthing kit
- 28 mounting kits

Code	Height (in U)	Height (mm)*	Width (mm)	Depth (mm)	Useful depth (mm)	Color
RM7-42-60/10A-S1-B	42	1978	600	1000	990	RAL 7035
RM7-42-60/10A-S1-H	42	1978	600	1000	990	RAL 9005
RM7-42-80/10A-S2-B	42	1978	800	1000	990	RAL 7035
RM7-42-80/10A-S2-H	42	1978	800	1000	990	RAL 9005

^{*} Height in mm without feet; for feet add 16-45 mm

Package information	For code RM7-42-60/10A-S1-B	For code RM7-42-60/10A-S1-H	Dimensions (mm) for RM7-42-60/10A-51-B and RM7-42-60/10A- S1-H	For code RM7-42-80/10A-S2-B	For code RM7-42-60/10A-S1-H	Dimensions (mm) for RM7-42-80/10A-52-B and RM7-42-60/10A- S1-H
Package 1	RM7-CO-42/6A-B	RM7-CO-42/6A-H	105×140×2100	RM7-CO-42/8A-B	RM7-CO-42/8A-H	105×140×2100
Package 2	RM7-TB-60/10A-S1-B	RM7-TB-60/10A-S1-H	630×1020×135	RM7-TB-80/10A-S2-B	RM7-TB-80/10A-S2-H	1005×1020×135
Package 3	RM7-D0-42/60- WVWV-B	RM7-D0-42/60- WVWV-H	550×70×1890	RM7-D0-42/80- WVWV-B	RM7-D0-42/80- WVWV-H	750×70×1890
Package 4	RM7-SP-42/100-B	RM7-SP-42/100-H	920×1920×85	RM7-SP-42/100-B	RM7-SP-42/100-H	920×1920×85

Recommended accessories



19" vented panel with brush

More information on page 92



Basic PDU

More information on page 106

OPEN FRAMES RSG4



RSG4-42-19/92-LF

COLOR SAMPLER:

RAL 9005

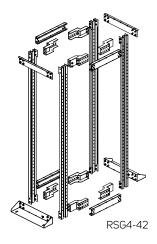
RSG4 high-load, four post open frames ensure unbeatable accessibility. With a balanced load rating of up to 1500 kg, they are ideal for installation of heavy servers, disk arrays, etc.

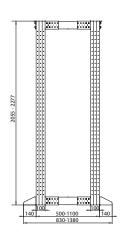
MAIN ADVANTAGES

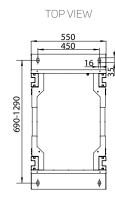
- 4-post frame for heavy IT hardware (up to 1500 kg)
- Unlimited access for component installation
- Full on-site configurability and depth adjustment
- High Density Wire Management compatible

Code *	11/:- 11\	Dimensions (mm)			
Code "	H (in U)	н	W	Depth settings	
RSG4-42-19/50-LF	42	2055	550	500-680	
RSG4-42-19/74-LF	42	2055	550	710-890	
RSG4-42-19/92-LF	42	2055	550	920-1100	
RSG4-45-19/50-LF	45	2188	550	500-680	
RSG4-45-19/74-LF	45	2188	550	710-890	
RSG4-45-19/92-LF	45	2188	550	920-1100	
RSG4-47-19/50-LF	47	2277	550	500-680	
RSG4-47-19/74-LF	47	2277	550	710-890	
RSG4-47-19/92-LF	47	2277	550	920-1100	

^{*} For inward-oriented base, replace L with X in product code







DESCRIPTION:

- Height: 42, 45, 47U
- Width: 550 mm
- Depth: 500-680 mm, 710-890 mm, 920-1100 mm (step 30 mm)

Load rating

• 1500 kg (balanced load)

IP rating

• IPOO (no protection)

Construction

• 2.0 mm sheet steel

• Standard RAL 9005

• Composed of sheet steel

- L outward-oriented (X inward-oriented optionally)
- Complete with holes for anchoring screws

Standard equipment

- 2 pairs of 19" vertical extrusions (with U marking)
- Top angles
- 2× outward-oriented L-sheet steel base

OPEN FRAMES RSG2

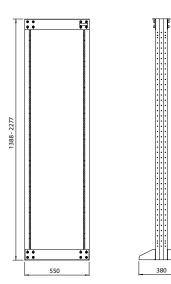


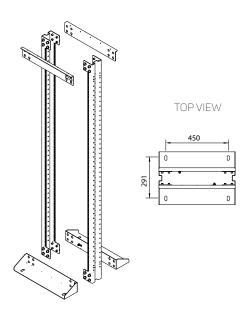
RSG2 high-load, two post open frames are designed to be used with High Density Wire Management.

MAIN ADVANTAGES

- 2-post frame with 500 or 1000 kg load rating
- Universal frame for cable management (fully compatible with High Density Wire Management)
- Unlimited access to for component installation

Code	H (in U)	H (mm)	Load rating (kg)
RSG2-27-19-L5	27	1388	500
RSG2-42-19-L5	42	2055	500
RSG2-45-19-L5	45	2188	500
RSG2-47-19-L5	47	2277	500
RSG2-42-19-LA	42	2055	1000
RSG2-45-19-LA	45	2188	1000
RSG2-47-19-LA	47	2277	1000





COLOR SAMPLER:

RAL 9005

DESCRIPTION:

- Height: 27, 42, 45, 47U
- Width: 550 mm
- Depth: 100 mm

Construction

• 2.0 mm sheet steel

Load rating

• 500 kg (balanced load; all heights)

• 1000 kg (balanced load; 42U, 45U and 47U only)

IP rating

• IPOO (no protection)

• Standard RAL 9005

- · Composed of sheet steel
- Complete with holes for anchoring screws

Standard equipment

- 1 pair of 19" vertical extrusions with U marking
- Top angles
- 2× base

Note: All dimensions in mm

OPEN FRAMES RS

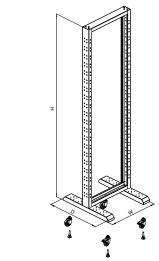


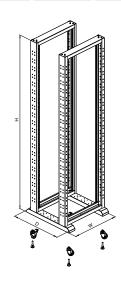
The RS frame series is used in closed rooms with controlled access, within a suitable operating environment for installed components, or wherever racks cannot be used.

MAIN ADVANTAGES

- Light frame
- Single or double version

Configuration order quantities							
H (in U)		19" two post		Dimensions (mm)			
H (in 0)	Code	frames		W	D	н	
27U	RS-27 1 2	559	600	1339			
2/0	RS-P	1	1	559	000	1555	
36U	RS-36	1	2	559	600	1739	
300	RS-P	1	1	559			
42U	RS-42	1	2	559	600	2005	
420	RS-P	1	1	559	600	2005	
45U	RS-45	1	2	559	600	2120	
450	RS-P	1	1	559	600	2139	





COLOR SAMPLER:

✓ RAL 9005

DESCRIPTION:

Sizes

- Height: 27, 36, 42, and 45U
- Width: 559 mm
- Depth: 600 mm (base size)

Construction

• 2.0 mm sheet steel

Load rating

- 200 kg two-post frame
- 400 kg four-post frame

• IPOO (no protection)

Colors

• Standard RAL 9005

Base

- Composed of sheet steel
- Equipped with feet
- Optional castors (to be ordered separately)

ACCESORIES FOR RS FRAMES

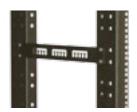
CROSS-RAIL FOR FOUR-POST FRAMES



- Used for fixing four-post frame
- 2 mm sheet steel
- Color: powder-coated RAL (standard RAL 9005)
- Package includes: 2× cross rails, 12× screw M5×12

Code	Description	Package
RSSD-RAIL	Cross-rail for four-post frame	1 pair

WIRE-MANAGEMENT PANEL FOR FOUR-POST FRAMES



- Store and secure cables between two pairs of 19" vertical extrusions (four-post
- 1.5 mm sheet steel
- Color: powder-coated RAL (standard RAL 9005)
- Package includes: 1× wire management panel

Code	Description	Package
RSSD-VP	Wire management panel for four-post frame	1 piece

STABILIZER FOR TWO-POST AND FOUR-POST FRAMES



- Increases sturdiness and stability of RS open frames
- Package includes: 1x left + 1x right stabilizer, 8x screws M5, 4x nuts M5

Code	Description	Package
RSSD-BRACE	Stabilizer for two and four-post frame	1 pair

SPACE OPTIMIZATION SECTIONS



End-of-the-row section applied



Front/rear sections applied

Conteg's Space Optimization Sections are designed to provide your data center with additional layout flexibility.

MAIN ADVANTAGES

- Special sections for adding extra space
- Allow layout flexibility via expansion of previously installed racks
- Same size as racks for minimal space consumption
- Can be added to the side, front and/or rear of standard racks

Space optimization sections	Compatible racks
ROF-ES-42-30/80	Ri7/RDF/RSF-42-xx/80
ROF-ES-45-30/80	Ri7/RDF/RSF-45-xx/80
ROF-ES-42-30/100	Ri7/RDF/RSF-42-xx/100
ROF-ES-45-30/100	Ri7/RDF/RSF-45-xx/100
ROF-RS-42-60/30	RSF/Ri7
ROF-RS-45-60/30	RSF/Ri7
ROF-RS-42-80/30	RDF/RSF/Ri7
ROF-RS-45-80/30	RDF/RSF/Ri7

DESCRIPTION:

SPACE OPTIMIZATION **SECTIONS**

- · Compatible with RSF, RDF, RI7 and RM7 series (iSEVEN - different front top shape)
- Expansion of both existing and new solutions - ready for next decade

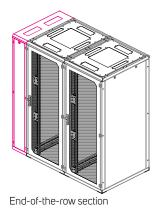
FRONT and REAR SECTION

- Increase usable depth by 300 mm modules
- Can be fitted out with extrusions
- Can be used for power management

END-OF-ROW SECTION

- Additional space for infrastructure use with wide 300 mm module
- Can be used for power management

END-OF-THE-ROW SECTION

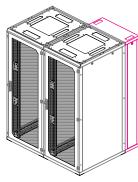


- For cable management, patching and power distribution at end of cabinet row
- Frame design
- Front and rear panels with locks, no side panels
- Cable entries in top and bottom covers
- Accepts vertical cable management systems (e.g. perforated flat panels, basket trays)
- Package includes: 1× rack, 1x DP-DR-UNI, 4× feet

Code	H (in U)	Dimensio	ons (mm)	Compatible
Code	H (III U)	W	D	racks
ROF-ES-42-30/80	42	300	800	
ROF-ES-42-30/100	42	300	1000	RSF*, RDF*,
ROF-ES-45-30/80	45	300	800	Ri7, RM7
ROF-ES-45-30/100	45	300	1000	

^{*} Optimized

FRONT/REAR SECTION



Front/rear section

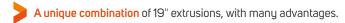
- Expands available space at rear/front of rack, allowing for installation of deeper equipment
- Further possibility for patching and power distribution
- Cable entries in top and bottom covers
- Tinted glass door with swivel handle; full range of RSF family door options (security glass, sheet steel, perforated sheet steel, vented, active vented, etc.)
- Accepts 19" vertical extrusions or vertical cable management systems
- Package includes: 1× rack with glass door, 1× DP-DR-UNI, 4× feet

Code	H (in U)	Dimensio	ons (mm)	Compatible
Code	H (IN U)	W	D	racks
ROF-RS-42-60/30	42	600	300	
ROF-RS-45-60/30	45	600	300	RSF, RDF, Ri7,
ROF-RS-42-80/30	42	800	300	RM7
ROF-RS-45-80/30	45	800	300	

RELATED ACCESSORIES

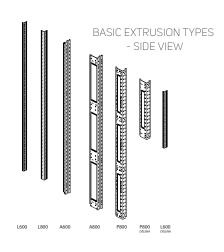
Code	Description	Note		
DP-RS-VP-42/30/19-A	(H) 42U, (W) 300 mm, 9×19" positions			
DP-RS-VP-45/30/19-A	(H) 45U, (W) 300 mm, 9×19" positions			
DP-RS-VP-42/30/10-A	(H) 42U, (W) 300 mm, 24×10" positions			
DP-RS-VP-45/30/10-A	(H) 45U, (W) 300 mm, 24×10" positions	VERTICAL PANELS FOR FRONT/REAR SECTIONS –		
DP-RS-VP-42/30/RJ-A	(H) 42U, (W) 300 mm, 14× positions for RJ-45 panels, $6\times$ RJ-45 modules each panel	vertical panels required for installing relevant 19" and 10' equipment (patch panels, PDUs, switches) and 14 or 15		
DP-RS-VP-45/30/RJ-A	(H) 45U, (W) 300 mm, 15× positions for RJ-45 panels, $6\times$ RJ-45 modules each panel	RJ-45 panels in the front/rear section		
DP-RS-RJ-14-XX	14 empty panels for snap in, 6× RJ-45 modules each; check with sales for compatibility of the respective RJ-45 brand			
DP-ES-VP-42/30/19-A	(H) 42U, (W) 300 mm, 9×19" positions			
DP-ES-VP-45/30/19-A	(H) 45U, (W) 300 mm, 9×19" positions	VERTICAL PANELS FOR END-OF-THE-ROW SECTIONS – vertical panels required for installing 9× 19" equipment (patch panels, PDUs, switches) in end-of-the-row section		

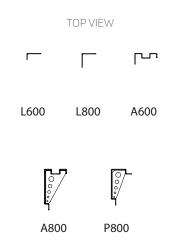
19" EXTRUSIONS

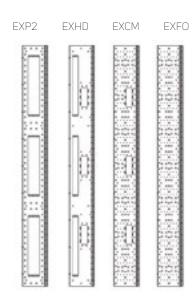


MAIN ADVANTAGES

- Strong, stable system
- Slidable throughout entire rack depth
- Wide extrusions with additional positions







DESCRIPTION

	STANDARD EXTRUSIONS								
Туре	Description								
L	L-profile extrusions guarantee maximum compatibility with server mounting kits, making installation even easier. L-type extrusions standard in 600 mm and 800 mm wide racks. Vertical holders used for 800 mm wide racks.								
Α	A-type extrusions without horizontal holders; for 800 mm provide additional 24U (3× 2U 19") of installation space – valid for racks 42U and taller, adjustable from inside.								
Р	P-Type extrusions for 800 mm wide RSF racks. Extrusion a single continuous piece, each with three 3U, 19" vertical mounting positions. Additional 12U mounting positions can be used for structured cabling, active components, or filled with optional blank panels for future use.								

	ECCENTRIC EXTRUSIONS								
Туре	Description								
EXP2	Space for patch panels, PDUs and switches	Possible to install in racks: RDF; RSF 800 mm width only with							
EXHD	Combination space for patch panels, PDUs, switches and vertical HDWM -VMR-12/10F	U type extrusions supported for 42U and 45U racks.							
EXCM*	Space for HDWM-VMR-12/10F and individual cable management	One pair of 19" vertical extrusions included; the opposite is always an L-profile extrusion.							
EXFO*	Universal space for individual cable management	atways an E-profile extrusion.							

^{*} EXCM and EXFO extrusions are compatible with HDWM-FSS-50 and HDWM-FSS-100

ORDERING INFORMATION FOR ECCENTRIC EXTRUSIONS

All Conteg racks listed in the product catalog come with industry standard extrusions. To order custom solutions using Eccentric Extrusions, start by ordering a rack without extrusions. To do this, simply place an 'X' in the last position (normally used to indicate rack depth) in the ordering code matrix, followed by the code for the extrusion part you've selected. The following are some examples of correct part numbers for 42U racks: ROF-LV-42/8X-EXP2, ROF-LV-42/8X-EXHD, ROF-LV-42/8X-EXCM or ROF-LV-42/8X-EXFO.

It is always necessary to order two extrusion packages: one for the front, and one for the rear. Different combinations of front and rear extrusion positions are possible. Eccentric rack extrusions can be installed by simply ordering the extrusion (mentioned above), removing the existing parts and installing the new extrusions.

COMPONENTS FOR COVERING HOLES IN EXTRUSIONS

DP-EHC-1000 - Set of covers for 9.5 mm holes, packaged in sets of 1000 pcs each.





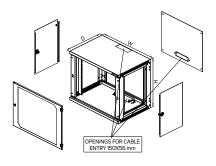
		WALL MOUNT	RACK SERIES	
	RUN	RUD	REN	ACP
Comparison	Welded-frame	Welded-frame	Welded-frame	Welded-frame
	Assembled	Assembled	Assembled	Assembled
	1.25 and 1.5 mm sheet steel	1.25 and 1.5 mm sheet steel	1 and 1.5 mm sheet steel	1.5 and 2 mm sheet steel
	See page 51	See page 52	See page 53	See page 54
Appropriate use				
Cable rack	+++	+++	+++	+++
IT systems	+++	+++	+	+
Distribution point	+++	+++	+++	+++
Lockable side panels	+++	+++	-	-
Balanced load rating				
Up to 20 kg	-	-	yes	yes
Up to 30 kg	yes	-	-	-
Up to 40 kg	yes	yes	-	-
IP rating				
IP30	yes	yes	yes	yes
Size				
6U	yes	yes	yes	yes
an	yes	yes	-	-
10U	-	-	yes	-
12U	yes	yes	yes	-
15U	yes	yes	yes	-
18U	yes	yes	-	-
Depth				
300 mm	-	-	yes	-
400 mm	yes	-	yes	-
500 mm	yes	yes	yes	-
600 mm	yes	-	-	-
Colors				
Light gray RAL 7035	yes	yes	yes	yes
Locking system				
Singlepoint	yes	yes	yes	yes
Side panel locks	yes	yes	-	-
Conoral comparison of IT rack sorios:				

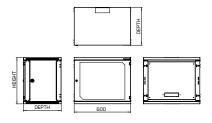
General comparison of IT rack series; for technical details see appropriate catalog pages.

PREMIUM RUN



RUN-09-60/40





COLOR SAMPLER:



Wall-Mount PREMIUM RUN racks are designed for wall-mount installation with extended access.

MAIN ADVANTAGES

- Excellent rigidity
- Unobstructed access to installed equipment from front and sides
- Lockable side panels

PREMIUM RUN - LOAD RATING 30 KG

Code	H (in U)		Dimensio	ons (mm)		Dimensio	Gross weight		
Code	H (III O)	н	W	D	Useful depth	н	W	D	(kg)
RUN-06-60/60	6	358	603	600	580	378	620	630	20
RUN-09-60/60	9	491	603	600	580	510	620	630	26
RUN-12-60/60	12	624	603	600	580	645	620	630	29
RUN-15-60/60	15	758	603	600	580	778	620	630	33
RUN-18-60/60	18	891	603	600	580	910	620	630	39

PREMIUM RUN - LOAD RATING 40 KG

Code H (i			Dimensi	ons (mm)		Dimensio	Gross		
	H (in U)	н	w	D	Useful depth	Н	w	D	weight (kg)
RUN-06-60/40	6	358	600	400	380	378	620	430	16
RUN-09-60/40	9	491	600	400	380	510	620	430	20
RUN-12-60/40	12	624	600	400	380	645	620	430	23
RUN-15-60/40	15	758	600	400	380	778	620	430	27
RUN-18-60/40	18	891	600	400	380	910	620	430	33
RUN-06-60/50	6	358	600	500	480	378	620	530	18
RUN-09-60/50	9	491	600	500	480	510	620	530	23
RUN-12-60/50	12	624	600	500	480	645	620	530	26
RUN-15-60/50	15	758	600	500	480	778	620	530	30
RUN-18-60/50	18	891	600	500	480	910	620	530	36

DESCRIPTION:

Sizes

- Height: 6, 9, 12, 15, 18U
- Width: 600 mm
- Depth: 400, 500 or 600 mm

Construction

• 1.25 mm sheet steel

Load rating

• Standard 40 kg (depth 400 and 500 mm), standard 30 kg (depth 600 mm)

IP rating

Standard IP30

Colors

• Standard RAL 7035

Front door

- Tinted security-glass (EN 12150-1) or sheet steel door
- Reversible door easy to re-hang for opening riaht or left
- Door opening angle 180°

- Removable, with module for cable entry
- When installed without rear panel, additional holes exposed for installation of 19" components
- Mounting holes for wall installation on back

Cable entries

- Top and bottom openings for cable entry, size 150×56 mm
- Covered by sliding blank panel with butterfly nuts (DP-DB-200×68)

- · Variable openings in relation to number of cables entering rack
- Cable entries on rear edge of enclosure for straight cable path alongside wall

- Drilling template
- Extra pair of DP-LV-N-xx extrusions optional

STANDARD CONFIGURATION:

- 1 pair sliding 19" vertical extrusions
- 2 removable side panels with lock
- Tinted security-glass door (EN 12150-1) with lock
- · GND/earthing kit
- 16 mounting kits

Note: All dimensions in mm

PREMIUM SPLIT RUD



RUD-15-60/50

COLOR SAMPLER:

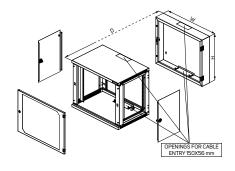


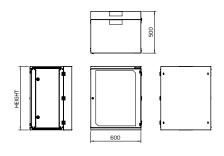
Wall-Mount PREMIUM Split RUD racks are designed for wall-mount installation with easy access.

MAIN ADVANTAGES

- Designed for excellent rigidity
- Free access to installed equipment from front, rear and sides
- Lockable side panels
- Lockable rear section

Code	H (in U)	Dimensions (mm)				Dimensio	Gross weight		
Code	H (III O)	н	W	D	Useful depth	н	W	D	(kg)
RUD-06-60/50	6	358	600	500	490	378	620	530	20
RUD-09-60/50	9	491	600	500	490	510	620	530	24
RUD-12-60/50	12	624	600	500	490	645	620	530	28
RUD-15-60/50	15	758	600	500	490	778	620	530	32
RUD-18-60/50	18	891	600	500	490	910	620	530	40





DESCRIPTION:

- Height: 6, 9, 12, 15, 18U
- Width: 600 mm
- Depth: 500 mm

Construction

• 1.25 mm sheet steel

Load rating

• Standard 40 kg (balanced load)

IP rating

Standard IP30

• Standard RAL 7035

Front door

- Tinted security-glass (EN 12150-1) or sheet steel door
- Reversible door eeasily re-hangs to open right or left
- Door opening angle 180°

Rear module

- Removable, with module for cable entry
- When installed without rear panel, additional holes exposed for installation of 19" components
- Mounting holes for wall installation on back

Cable entries

- 150x56 mm top and bottom openings
- Covered by sliding blank panel with butterfly nuts (DP-DB-200×68)

- · Variable openings in relation to number of cables entering rack
- Cable entries on rear edge of enclosure for straight cable path alongside the wall

Other

- Drilling template
- Extra pair of DP-LV-N-xx extrusions optional

STANDARD CONFIGURATION:

- 1 pair sliding 19" vertical extrusions
- 2 removable side panels with lock
- Tinted security-glass door (EN 12150-1) with
- GND/earthing kit
- 16 mounting kits

Note: All dimensions in mm

ISEVEN REN



REN-10-60/40

COLOR SAMPLER:

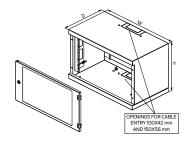
RAL 7035

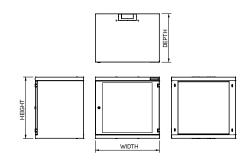
Wall-Mount iSEVEN REN racks are ready for daily use, with an unmatched ratio between price, utility value and quality.

MAIN ADVANTAGES

Easy access to installed equipment via front door

Code	de H (in U)		Dimensi	ons (mm)		Dimens	Gross		
Code	H (IN U)	н	W	D	Useful depth	н	W	D	weight (kg)
REN-06-60/30	6	332	530	300	250	350	555	339	9
REN-06-60/40	6	332	530	400	350	350	555	439	10
REN-10-60/40	10	510	530	400	350	535	555	439	12
REN-12-60/40	12	599	530	400	350	655	555	439	15.5
REN-15-60/40	15	732	530	400	350	758	555	439	16
REN-06-60/50	6	332	530	500	450	350	555	539	12
REN-10-60/50	10	510	530	500	450	535	555	539	17
REN-12-60/50	12	599	530	500	450	655	555	539	18
REN-15-60/50	15	732	530	500	450	758	555	539	21





DESCRIPTION:

- Height: 6, 10, 12, 15U
- Width: 530 mm
- Depth: 300, 400 or 500 mm

Construction

• 1 mm sheet steel

Load rating

• Standard 20 kg balanced load

IP rating

• Standard IP30

Colors

• Standard RAL 7035

Front door

- Tinted security-glass (EN 12150-1) or sheet steel door
- Reversible door easy re-hanging to open right or left (at installation site)
- Door opening angle 180°

Cable entries

• Top and bottom openings for knock-out cable entry, size 100×42 mm and 150×56 mm

• Cable entries on rear edge of enclosure for straight cable path alongside wall

Other

· Drilling template

- 1 pair sliding 19" vertical extrusions
- Tinted security-glass door (EN 12150-1) with lock
- GND/earthing kit

SOHO IN-WALL ACP



ACP-IW-55/53/14

COLOR SAMPLER:

RAL 7035

ACP series SOHO racks are designed for households and small offices. They are the only racks in the Conteg portfolio that can be installed directly into the wall, making them an ideal solution for use within a space-constrained environment.

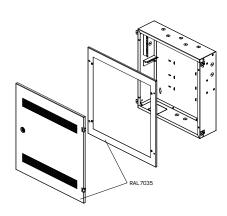
MAIN ADVANTAGES

- Equipped with extrusions for both active equipment installation (2U) and mounting passive components (4U)
- Offers access to installed equipment through front door

Code	Box	Box dimensions (mm)			Vertical extrusions		Horizontal extrusions		External dimensions including packing (mm)		
	н	W	D	U*	UD **	U*	UD **	н	W	D	(kg)
ACP-IW-55/53/14	550	530	140	4	90	2	300	630	595	170	12

^{*} Length of extrusions in units

^{**} Max. depth of installed equipment in mm



DESCRIPTION:

Sizes

- Height: 550 mm
- Width: 530 mm
- Depth: 140 mm

Construction

• Zinc-coated 1.25, 1.5, and 2 mm sheet steel box

Colors

• Standard RAL 7035

Load rating

• 20 kg

Front door

- Door opening angle 180°
- Perforated door for effective ventilation with lock

Cable entries

- Knock-out at bottom for internal electrical outlet
- Multiple 22.6 mm conduit knock-outs on all sides of box
- Cable tie bump outs on rear side of box

- 1 pair of fixed 19" horizontal extrusions (2U)
- 1 pair of fixed 19" vertical extrusions (4U)
- Sheet steel perforated door with lock

SOHO ON-WALL ACP



ACP-OW-55/53/14

COLOR SAMPLER:



SOHO On-Wall ACP racks are installed directly on the wall. This distribution enclosure gives great deployment flexibility, while offering a more aesthetically pleasing and cost-effective solution to the developer/homeowner.

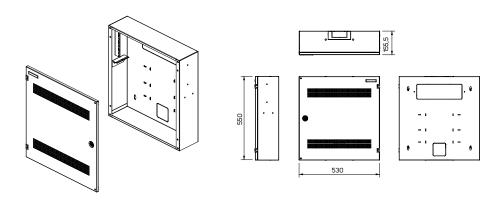
MAIN ADVANTAGES

- Equipped with extrusions for both active equipment installation (2U) and mounting passive components (4U)
- Offers access to installed equipment through front door

Code	Вох	Box dimensions (mm)			Vertical Horizontal extrusions			External dimensions including packing (mm)			Gross weight
Code	н	w	D	U*	UD **	U*	UD **	н	w	D	(kg)
ACP-0W-55/53/14	550	530	155	4	90	2	300	630	595	170	12

^{*} Length of extrusions in units

^{**} Max. depth of installed equipment in mm



DESCRIPTION:

Sizes

- Height: 550 mm
- Width: 530 mm
- Depth: 155 mm

Construction

• Box and door made of 1.25, 1.5, and 2 mm sheet steel

Colors

• Standard RAL 7035

Load rating

• 20 kg

Front door

- Door opening angle 180°
- Perforated door for effective ventilation with lock

Cable entries

- Knock-out at bottom for internal electrical outlet
- Multiple 22.6 mm conduit knock-outs on all sides of box
- Cable tie bump outs on rear side of box

- 1 pair of fixed 19" horizontal extrusions (2U)
- 1 pair of fixed 19" vertical extrusions (4U)
- Sheet steel perforated door with lock

SOHO MINI REH 10" RACKS



REH-06-30/26

COLOR SAMPLER:

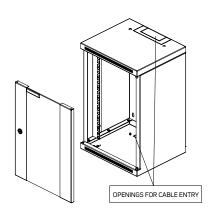
RAL 7035

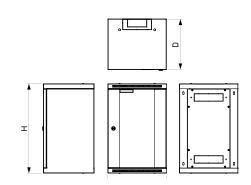
SOHO Mini REH racks are suitable for the placing of 10" patch panels, shelves, SOHO active components, etc.

MAIN ADVANTAGES

- Minimal dimensions allow installation in small offices and households
- Offers access to installed equipment through front door

Code	H (in U)		Dimensio	ons (mm)		Dimensio	Gross weight		
Code	H (III O)	н	W	D	Useful depth	н	W	D	(kg)
REH-04-30/26	4	237	300	260	230	257	317	287	4.5
REH-06-30/26	6	326	300	260	235	346	317	287	5.5
REH-09-30/26	9	459	300	260	235	477	317	287	7





DESCRIPTION:

- Height: 4, 6 and 9U
- Width: 300 mm
- Depth: 260 mm

Construction

• 1.25 mm sheet steel

Load rating

• Standard 20 kg balanced load

IP rating

• Standard IP30

Colors

• Standard RAL 7035

Front door

- Tinted security-glass (EN 12150-1)
- Reversible door easily re-hangs to open on right or left (at installation site)
- Door opening angle 180°

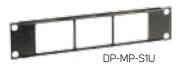
Cable entries

- Knock-out top and bottom openings for 150x56 mm cable entry, 150x56 mm rear cable entry; openings can also be covered with blank panel (DP-DB-200x68) or brush (DP-KP-KAR3)
- Cable entries start on rear edge of enclosure for straight cable path alongside wall

- One pair of 10" vertical extrusions; can be moved back up to 20 mm
- Drilling template
- Mounting holes on back for wall installation

- 1 pair of 10" vertical extrusions
- Tinted security glass door (EN 12150-1) with
- · Openings for cable entry
- 8 mounting kits

SOHO MINI REH ACCESSORIES







REH – PATCH PANELS									
Code	H (in U)	W	Used with	Package					
DP-PP-S1U	1	10"	8 Keystone type modules with DP-KEY; 16.7x24.3 mm standard hole size	1 pc					
DP-MP-S1U	1	10"	12 modules Panduit	1 pc					
DP-DSZ-S	2+1/2	10"	8 modules LSA-PLUS	1 pc					







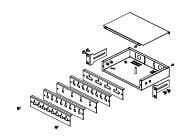


DP-VP-PS01

REH – ACCESSORIES									
Code	H (in U)	W	Description	Package					
DP-PT-S200	1	10"	150 mm deep shelf	1 pc					
DP-ZA-S1U	1	10"	Blank panel	1pc					
DP-S01-VENT	1	10"	Vented panel	1 pc					
DP-VP-PS01	1	10"	Wire management panel with plastic brackets	1pc					

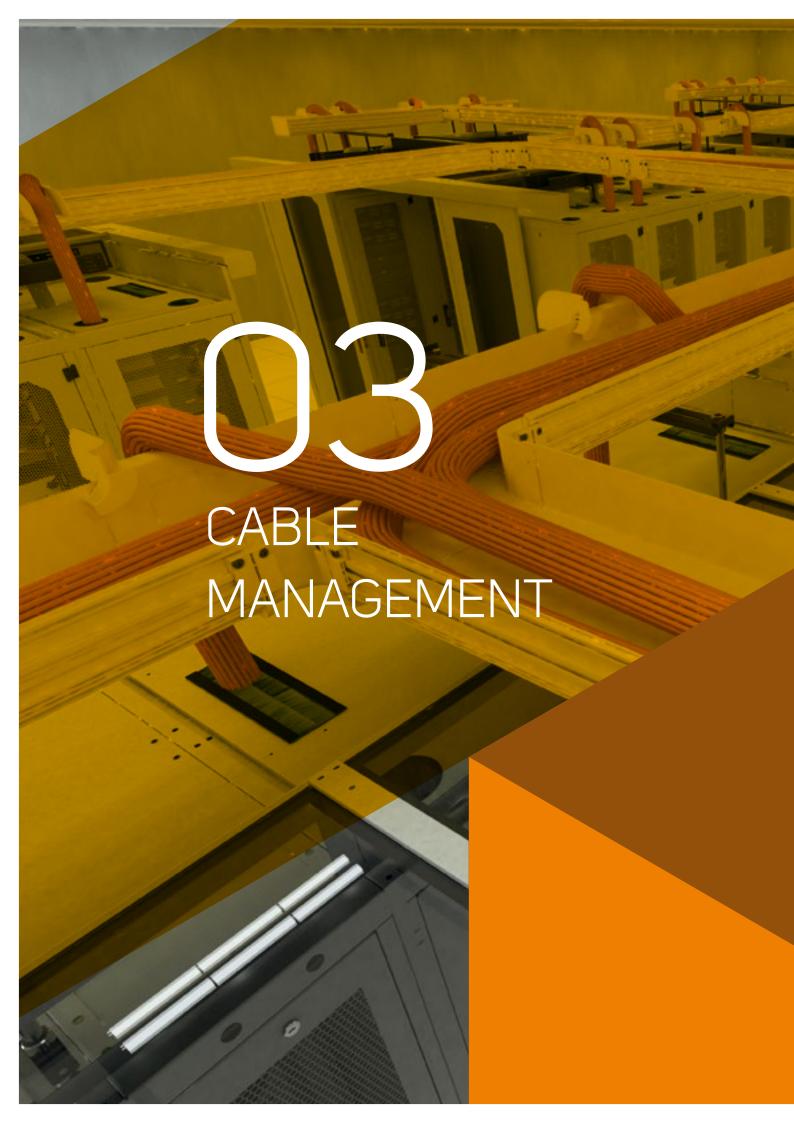
10" FIBER-OPTIC SPLICE BOXES





- For use with modular front panel
- Up to 8 positions: ST, SC or FC type or 4 positions DSC or FCD type
- Height: 1U
- Cable entry via two PG9 couplings on rear part (included)
- Holes not in use can be covered
- Installation in 10" rack with two sliding holders
- Installation kit for splice cassette size 142×95 mm (included)
- Color: powder-coated RAL (standard RAL 9005)
- Package includes: 1× fiber optic box, 2× holder for 10" rack, 2× PG9 couplings, 2× screws for affixing to front panel (front panel not included)

Description	H (in U)	W	D (mm)	Package
fiber-optic splice boxes	1	10"	160	1рс
dular front panel	1	10"	-	1 рс
dular front panel	1	10"	-	1 рс
dular front panel	1	10"	-	1 рс
dular front panel	1	10"	-	1 рс
dular front panel	1	10"	_	1pc
	fiber-optic splice boxes adular front panel adular front panel adular front panel	fiber-optic splice boxes 1 dular front panel 1	fiber-optic splice boxes 1 10" dular front panel 1 10"	fiber-optic splice boxes 1 10" 160 Indular front panel 1 10" –





HIGH DENSITY WIRE MANAGEMENT



High Density Wire Management (HDWM) helps to improve network performance and reliability (system under industrial trademark).

MAIN ADVANTAGES

- Reduces risk of attenuation and substantially increases data transmission reliability
- Solution for racks and open frames
- Innovative approach for backbone and patch cables allow better organization in accordance with industry standards and major cable manufacturer recommendations
- New design for 48 patch cords (Cat. 7A) in 1U position
- Unbeatable density of patch cords
- Bend radius control
- Allows installation of up to 2016 patch cords in one rack
- Unique front panel latching system
- > Front or front/rear design layout available
- Wide range of sizes usable for typical applications

COLOR SAMPLER: ■ RAL 9005

	HIGH DENSITY WIRE MANAGER CABLE FILL CALCULATOR										
	HIGH DENSITY WIRE MANAGER CABLE FILL CALCULA	ATUR	Number of Cables								
				Number of	Cables						
Code	Description	Cable Details	Cat 6 UTP	Cat 6A UTP	Cat 7 PiMF	Custom					
		Ø (mm)	5.870	7.239	7.620	8.000					
		Fill Factor		50 %	5						
STANDARD VERSION											
HDWM-HM-1F	Horizontal HDWM, 1U×10 finger, front only 1U×19"×112 mm		50	33	30	27					
HDWM-VMR-42-12/10F	Vertical High Density Rack Wire Manager, 41 fingers, front only, 42U×100×112 r	184	121	109	99						
HDWM-VMF-42-15/20F	Vertical High Density Frame Wire Manager, 41 fingers, front only, 42U×151×200	507	333	301	273						
HDWM-VMF-42-25/20F	Vertical High Density Frame Wire Manager, 41 fingers, front only, 42U×251×200	mm	913	600	541	491					
HDWM-VMF-42-25/30F	Vertical High Density Frame Wire Manager, 41 fingers, front only, 42U×251×300	mm	1411	928	837	760					
Finger Opening Standard	Capacity of finger opening - standard version		47	31	28	25					
LONGER VERSION											
HDWM-HML-1F	Horizontal HDWM, 1U×10 long finger, front only 1U×19"×182mm		92	60	54	49					
HDWM-VMR-42-19/10F	Vertical High Density Rack Wire Manager, 41 long fingers, front only, 42U×100×18	2 mm	312	205	185	168					
HDWM-VMF-42-22/20F	Vertical High Density Frame Wire Manager, 41 long fingers, front only, 42U×221×20	791	520	469	426						
HDWM-VMF-42-32/20F	Vertical High Density Frame Wire Manager, 41 long fingers, front only, 42U×321×20	00 mm	1197	787	710	644					
HDWM-VMF-42-32/30F	Vertical High Density Frame Wire Manager, 41 long fingers, front only, 42U×321×30	1851	1217	1098	996						
Finger Opening Long	Capacity of finger opening – longer version		92	60	54	49					

DESCRIPTION:

Front/rear design

- Dual pathway for managing cables within the same HDWM
- Horizontal and vertical orientations, vertical racks (VMR) for front only

Front only design

- Simple pathway for cables
- Available in horizontal and vertical orientations

Horizontal orientation

• Horizontal pathway for managing cables between installed equipment

• For mounting onto 19" extrusions

Vertical orientation

- · Vertical pathway for managing cables into and through the rack or frame
- Velcro cable ties for optimum cable bundle management
- Vertical managers can be bolted together (front to back), customizing the HDWM to your requirements

Frame vertical panel (VMF)

- 3 mm thick aluminum ensures high rigidity and structural strength
- Easy installation onto RSG frames

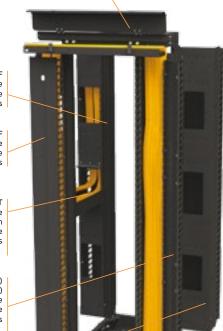
Cable Troughs

- Allows cable management of cables between vertical rack (VMR) or frame (VMF) HDWM
- Adjustable length

Sizes

• Fingers come in two sizes – standard and long

HDWM-FDF-S3-20B front duct system, compatible with HDWM-VMF-xx-yy/20F installed on both sides



INSTALLATION vertical High Density Wire Managers can be installed in any standard vertical 19" extrusions

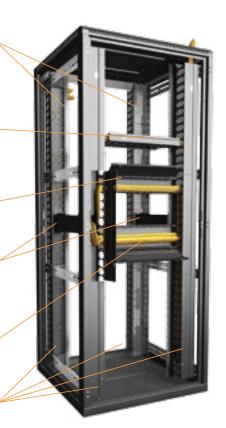
HDWM-HM-1FR front/rear horizontal 1U High Density Wire Manager, applicable in both rack and frame deployments front/rear horizontal 2 or 3U High; Density Wire Manager with brush also available

HDWM-HM-2F front horizontal 2U High Density Wire Manager, applicable in both rack and frame deployments

HDWM-VMR-ACT horizontal adjustable cable troughs to lead the cables between front and rear vertical rack; High Density Wire Managers

HDWM-HM-3F front horizontal 3U High Density Wire Manager, applicable in both rack and frame deployments

HDWM-VMR-42-12/10F front vertical High Density Wire Managers, applicable in rack deployment



HDWM-VMF-47-15/20F front vertical High Density Wire Manager, applicable in frame deployments

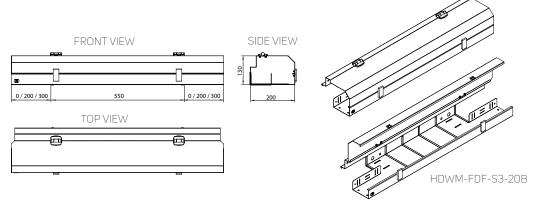
HDWM-VMF-47-15/20F front vertical High Density Wire Manager, applicable in frame deployments

HDWM-VMF-ACT horizontal adjustable cable troughs to lead cables between front and rear vertical open frame High Density Wire Managers

HDWM-VMF-47-25/20F (2×) front wire managers (shown) joined to allow front & rear cable management, applicable in frame deployments

HDWM-VMF-47-25/30F front vertical High Density Wire Manager, applicable in frame deployments

FRONT DUCT SYSTEM COMPATIBLE WITH VERTICAL HDWM - RSG OPEN FRAME INSTALLATION



Note: All dimensions in mm

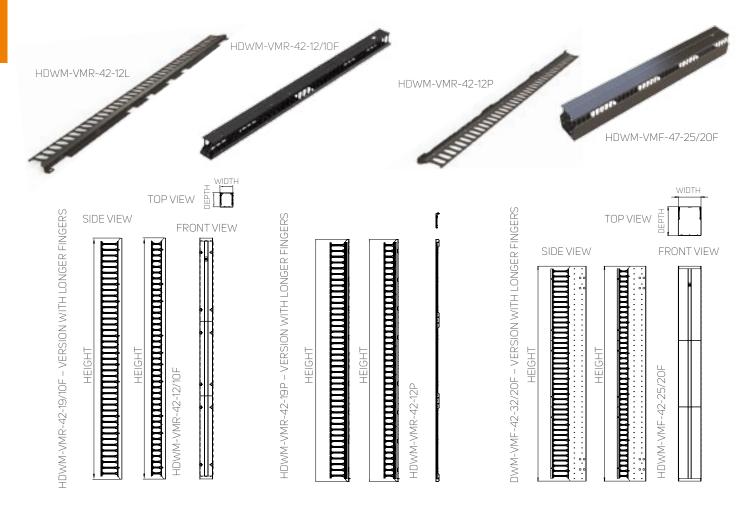
Package includes:

- Set 1: 1× HDWM front duct, 1× cable radius protector, 1× connecting module, 4× screws M5, 4× nuts M5, 4× washer M5
- Set 2: 1x HDWM front duct, 2x cable radius protector, 1x connecting module, 4x screws M5, 4x nuts M5, 4x washer M5

		FRONT DUCT SYSTEM COMPATIBLE WITH VERTICAL HDWM	
Code	Installation	Description	Package
HDWM-FDF-S3-20L	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/20F installed on the left-hand side	1 pc of set 1
HDWM-FDF-S3-20R	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/20F installed on the right-hand side	1 pc of set 1
HDWM-FDF-S3-20B	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/20F installed on both sides	1 pc of set 2
HDWM-FDF-S3-30L	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/30F installed on the left-hand side	1 pc of set 1
HDWM-FDF-S3-30R	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/30F installed on the right-hand side	1 pc of set 1
HDWM-FDF-S3-30B	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/30F installed on both sides	1 pc of set 2
HDWM-FDF-S3-20L30R	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/20F installed on the left-hand side and HDWM-VMF-xx-yy/30F installed on the right-hand side	1 pc of set 2
HDWM-FDF-S3-30L20R	Open frame	Front duct system, compatible with HDWM-VMF-xx-yy/30F installed on the left-hand side and HDWM-VMF-xx-yy/20F installed on the right-hand side	1 pc of set 2
HDWM-FDF-S3-EC	Open frame	End cap for front duct system	2 pcs

VERTICAL HIGH DENSITY WIRE MANAGERS

RACK & RSG OPEN FRAME INSTALLATION



Package includes:

- Set 1: 1× HDWM manager, set of blanking panels, 8× screws M5, 8× nuts M5, 8× washer M5, 10× velcro ties HDWM-VCT
- Set 2: 1× HDWM manager, 4× screws M5, 4× nuts M5, 4× washer M5, 5× velcro ties HDWM-VCT
- Set 3: 1× HDWM manager, 4× screws M5, 4× nuts M5, 4× washer M5, 10× velcro ties HDWM-VCT

		VERT	TCAL HIGI	H DENSIT	Y WIRE M	ANAGERS				
Code	I - stall - star	T	No. of	fingers		Dimension	1S	Extended version with long	er fingers	Declares
Code	Installation	Туре	Front	Rear	H (in U)	W (mm)	D (mm)	Code	D (mm)	Package
HDWM-VMR-42-12/10F	Rack	Front	41	Х	42	100	112	HDWM-VMR-42-19/10F	182	
HDWM-VMR-45-12/10F	Rack	Front	44	Х	45	100	112	HDWM-VMR-45-19/10F	182	1 pc of set 1
HDWM-VMR-48-12/10F	Rack	Front	47	Х	48	100	112	HDWM-VMR-48-19/10F	182	
HDWM-VMR-42-12L	Rack	L-tupe extrusion and	41	Х	42	-	112	HDWM-VMR-42-19L	182	
HDWM-VMR-45-12L	Rack	A-type RSF 600 mm	44	Х	45	-	112	HDWM-VMR-42-19P	182	
HDWM-VMR-48-12L	Rack	width, one row	47	Х	48		112	HDWM-VMR-45-19L	182	1(
HDWM-VMR-42-12P	Rack	P-tupe extrusion and	41	Х	42	-	112	HDWM-VMR-45-19P	182	1 pc of set 2
HDWM-VMR-45-12P	Rack	A-type RSF 800 mm	44	Х	45	-	112	HDWM-VMR-48-19L	182	
HDWM-VMR-48-12P	Rack	width, one row	47	Х	48		112	HDWM-VMR-48-19P	182	
HDWM-VMF-42-15/20F	Open frame	Front ¹	41	Х	42	200	151	HDWM-VMF-42-22/20F	221	
HDWM-VMF-45-15/20F	Open frame	Front ¹	44	Х	45	200	151	HDWM-VMF-45-22/20F	221	
HDWM-VMF-47-15/20F	Open frame	Front ¹	46	Х	47	200	151	HDWM-VMF-47-22/20F	221	
HDWM-VMF-42-25/20F	Open frame	Front ¹	41	Х	42	200	251	HDWM-VMF-42-32/20F	321	
HDWM-VMF-45-25/20F	Open frame	Front ¹	44	Х	45	200	251	HDWM-VMF-45-32/20F	321	1 pc of set 3
HDWM-VMF-47-25/20F	Open frame	Front ¹	46	Х	47	200	251	HDWM-VMF-47-32/20F	321	
HDWM-VMF-42-25/30F	Open frame	Front ¹	41	Х	42	300	251	HDWM-VMF-42-32/30F	321	
HDWM-VMF-45-25/30F	Open frame	Front ¹	44	Х	45	300	251	HDWM-VMF-45-32/30F	321	
HDWM-VMF-47-25/30F	Open frame	Front ¹	46	Х	47	300	251	HDWM-VMF-47-32/30F	321	

¹ For front/rear design, simply order respective front managers and install them easily at the installation site with enclosed hardware (standard). Both the standard and longer versions may be combined as well.

HORIZONTAL HIGH DENSITY WIRE MANAGERS



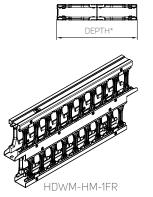
Front/rear design-HDWM-HM-1FR



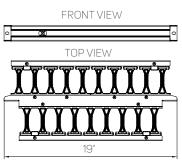




FRONT/REAR



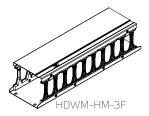
SIDE VIEW

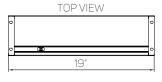


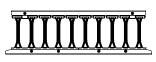
FRONT ONLY











FRONT VIEW - VERSION WITH LONGER FINGERS

Package includes:

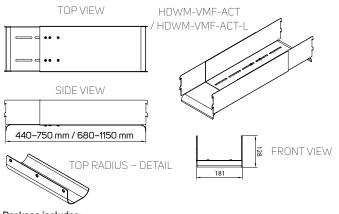
• HDWM manager, 1× DP-MO-01

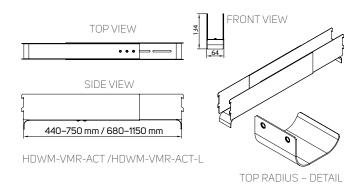
	HORIZONTAL HIGH DENSITY WIRE MANAGERS											
C. I.	I - stall star			No. of fingers		Dimensions		Extended version with long	Dealers			
Code	Installation	Туре	Front	Rear	H (in U)	W	D (mm)	Code	D (mm)	Package		
HDWM-HM-1F	Open frame/rack	Front	10	х	1	19"	112	HDWM-HML-1F	182	1 pc		
HDWM-HM-1FR	Open frame/rack	Front/rear	10	9	1	19"	223	HDWM-HML-1FR	363	1 pc		
HDWM-HM-2F	Open frame/rack	Front	10	х	2	19"	112	HDWM-HML-2F	182	1 pc		
HDWM-HM-2FR	Open frame/rack	Front/rear	10	9	2	19"	223	HDWM-HML-2FR	363	1 pc		
HDWM-HM-2FRB	Open frame/rack	Front/rear, brush	10	9	2	19"	223	HDWM-HML-2FRB	363	1 pc		
HDWM-HM-3F	Open frame/rack	Front	10	х	3	19"	112	HDWM-HML-3F	182	1 pc		
HDWM-HM-3FR	Open frame/rack	Front/rear	10	9	3	19"	223	HDWM-HML-3FR	363	1 pc		
HDWM-HM-3FRB	Open frame/rack	Front/rear, brush	10	9	3	19"	223	HDWM-HML-3FRB	363	1pc		

ADJUSTABLE CABLE TROUGH FOR VERTICAL HDWM

RSG OPEN FRAME INSTALLATION

RACK INSTALLATION





Package includes:

• HDWM-VMX-ACT-X: 1× duct, 2× radius control, 4× screws M5

	ACCESSORIES FOR HIGH DENSITY WIRE MANAGERS	
Code	Description	Package
HDWM-VMR-19	Bracket for attachment of HDWM-VMR-XX-XX/XXF to 19" profiles (not required for RDF/RSF)	1 set
HDWM-VMR-ACT	Adjustable cable trough - for front-to-rear cable management between front and rear mounted VMR, top radius included, range 440 to 750 mm*	1 set
HDWM-VMF-ACT	Adjustable cable trough - for front-to-rear cable management between front and rear mounted VMF, top radius included, range 440 to 750 mm	1 set
HDWM-VMR-ACT-L	Adjustable cable trough - Long - for front-to-rear cable management between front and rear mounted VMR, top radius included, range 680 to 1150 mm*	1 set
HDWM-VMF-ACT-L	Adjustable cable trough - Long - for front-to-rear cable management between front and rear mounted VMF, top radius included, range 680 to 1150 mm	1 set
HDWM-VMF-B15	Bracket for attachment of HDWM-VMF-XX-15/XXF to back of open frame (not required for RSG)	2 pcs
HDWM-VMF-B25	Bracket for attachment of HDWM-VMF-XX-25/XXFR to back of open frame (not required for RSG)	2 pcs
HDWM-VMF-BLANK-42	Blank panel kit to close ACT holes for 42U VMF range of wire managers	3 pcs
HDWM-VMF-BLANK-45	Blank panel kit to close ACT holes for 45/47U VMF range of wire managers	3 pcs
HDWM-FSS-50	Fiber storage spools, 50 mm deep, including mounting hardware	1 pair
HDWM-FSS-100	Fiber storage spools, 100 mm deep, including mounting hardware	1 pair
HDWM-VCT-B	Velcro cable belt, 13×5000 mm, black	1рс
HDWM-VCT-S	Velcro cable ties-small, 13×190 mm, black	25 pcs
HDWM-VCT	Velcro cable ties, 25×300 mm, black	10 pcs

^{*} Not compatible with divided rear extrusions of RSF rack (option U)



HDWM-FSS-50



HDWM-VCT-S



HDWM-VCT-B



HDWM-VCT

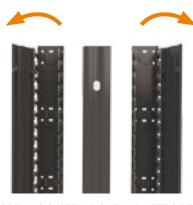
DIFFERENCES BETWEEN LONGER AND STANDARD VERSION



Note: All dimensions in mm







OPENING SYSTEM RIGHT AND LEFT SIDE

OPTIWAY OPTICAL PATHWAY SYSTEM



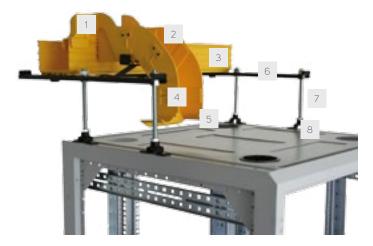


OptiWay is designed to provide a safe, easy-to-use and cost-effective management system for fragile optical cables. OptiWay allows you to route fiber-optic cables between equipment, providing both the physical protection and bend radius management crucial to optical cable performance.

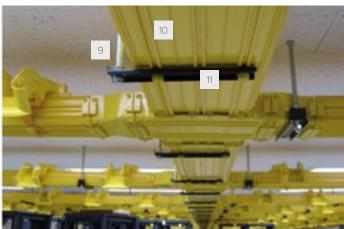
MAIN ADVANTAGES

- Designed to make optical cable management systems safe and easy-to-use
- Fully modular, scalable system
- Bend radius protection
- Halogen-free PC-ABS material, compliant with UL 94 V-0
- Designed for three installation variables: hung from ceiling, top of rack support or a combination
- Multilevel installation
- The final design can be fully customizable

		Description of pictures 1 and 2 below
No.	Code	Description
1	OPW-10DR	Spillover
2	OPW-10IA90	Vertical inside elbow
3	OPW-16MD2M	Main duct
4	OPW-10J0	Joiner
5	OPW-10TP	Trumpet
6	OPW-RRB-100	Threaded rod attachment bracket (rack mounting)
7	OPW-TR-16/20	Threaded rod
8	OPW-TR-BR	Threaded rod mounting bracket
9	OPW-TR-16/100	Threaded rod
10	OPW-30MD2M	Main duct
11	OPW-TRB-30	Threaded rod attachment bracket (ceiling mounting)

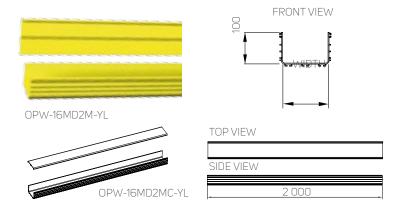






2. OptiWay ceiling installation

MAIN DUCT



- An extruded 2-meter-long conduit; can be connected with other OptiWay products using joiners
- Delivered in even numbers (packaged by 2 pcs = 4 m)
- Can be easily cut to length on-site
- Duct load rating 20 kg/m; required distance between brackets max. 900 mm
- Color: Yellow

Code	Inner duct	size (mm)	Leadh (m)	Package	
Code	н	W	Length (m)		
OPW-16MD2M-YL	100	160	2	2 pcs	
OPW-30MD2M-YL	100	300	2	2 pcs	
COVERS					
OPW-16MDC2M-YL	-	160	2	1рс	
OPW-30MDC2M-YL	-	300	2	1рс	

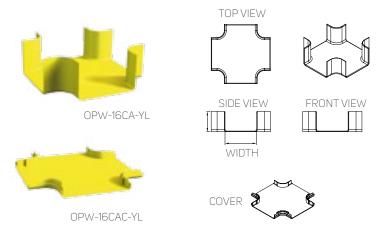
JOINER



- Used to connect two OptiWay component
- Does not require drilling of duct or components
- Color: Yellow
- Package includes: 1× joiner, 8× screws

Code	Inner duct	Packago	
Code	Н	W	Package
OPW-10JO-YL	100	100	1 рс
OPW-16JO-YL	100	160	1 рс
OPW-30JO-YL	100	300	1рс

CROSS



- Used to establish a 4-way, right-angled intersection
- Four joiners required per cross
- Color: Yellow

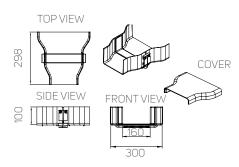
Note: All dimensions in mm

Code	Inner duct	Package	
Code	н	W	Package
OPW-16CA-YL	100	160	1 pc
OPW-30CA-YL	100	300	1 pc
COVERS			
OPW-16CAC-YL	-	160	1 pc
OPW-30CAC-YL	-	300	1 pc

REDUCER



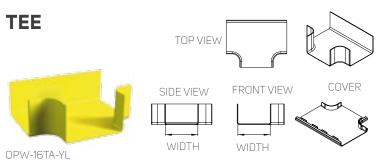




- Allows 300×100 mm and 160×100 mm OptiWay sections to be joined together
- Two joiners required per reducer
- Color: Yellow

Code	Inner duct size (mm)		Dooleans
Code	Н	W1/W2	Package
OPW-3016RD-YL	100	300 / 160	1 pc
COVERS			
OPW-3016RDC-YL	-	300/160	1 pc

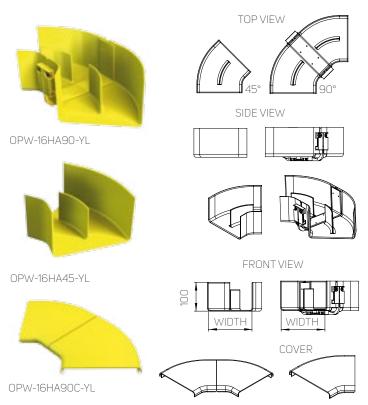
Inner duct size (mm)



		Н	W	
	OPW-16TA-YL	100	160	1 pc
H WIDTH	OPW-30TA-YL	100	300	1 рс
	COVERS			
ersection	OPW-16TAC-YL	-	160	1 рс
	OPW-30TAC-YL	-	300	1 pc

- Used to establish a 3-way, right-angled inter-
- Three joiners required per tee
- Color: Yellow

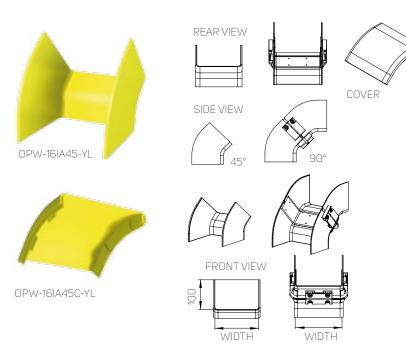
HORIZONTAL ELBOW



Code	Tues	Inner duct	Inner duct size (mm)		
Code	Туре	н	W	Package	
OPW-16HA45-YL	45°	100	160	1 pc	
OPW-30HA45-YL	45°	100	300	1 pc	
OPW-16HA90-YL	90°	100	160	1 pc	
OPW-30HA90-YL	90°	100	300	1 pc	
COVERS					
OPW-16HA45C-YL	45°	-	160	1 pc	
OPW-30HA45C-YL	45°	-	300	1 pc	
OPW-16HA90C-YL	90°	-	160	1 pc	
OPW-30HA90C-YL	90°	-	300	1 pc	

- Allows ducts to be diverted through 45° or 90°
- Two joiners required per elbow
- Color: Yellow

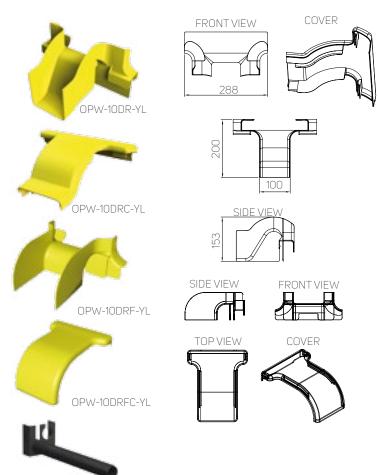
VERTICAL INSIDE ELBOW



		Inner duct	Inner duct size (mm)			
Code	Туре	Н	W	Package		
OPW-16IA45-YL	45°	100	160	1рс		
OPW-30IA45-YL	45°	100	300	1 pc		
OPW-16IA90-YL	90°	100	160	1 pc		
OPW-30IA90-YL	90°	100	300	1 pc		
COVERS						
OPW-16IA45C-YL	45°	-	160	1 pc		
OPW-30IA45C-YL	45°	-	300	1 pc		
OPW-16IA90C-YL	90°	-	160	1 pc		
OPW-30IA90C-YL	90°	-	300	1 pc		

- Allows ducts to be diverted through 45° or 90° with an inside angle (usually in a downward direction)
- Two joiners required per elbow
- Color: Yellow

SPILLOVER



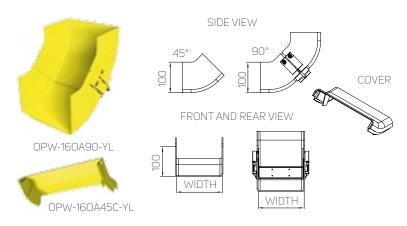
	Inner duct		
Code	н	W	Package
OPW-10DR-YL	100	100	1 pc
OPW-10DRF-YL	100	100	1рс
COVERS			
OPW-10DRC-YL	-	100	1 pc
OPW-10DRFC-YL	-	100	1рс

SPILLOVER ACCESSORIES					
Code	Description	Package			
OPW-10JO-YL	OptiWay 100 Joiner, 100×100 mm, yellow	1 рс			
OPW-10TP-YL	OptiWay 100 Trumpet, 100×100 mm, yellow	1 рс			
OPW-10IA45-YL	OptiWay 100 mm, 45° down angle, yellow	1 рс			
OPW-SDMB-16	OptiWay Side Drop Mounting Bracket for 160×100 mm duct	1 рс			
OPW-SDMB-30	OptiWay Side Drop Mounting Bracket for 300×100 mm duct	1 рс			
OPW-10DRF-TG	OptiWay 100 Spillover fall-out tube guide (up to two tubes), without tube, black	1 рс			
OPW-10DRF-TB3	OptiWay 100 tube for spillover, outer diam. 40 mm, length 3 m, black	1 рс			
OPW-10DRF-TB30	OptiWay 100 tube for spillover, outer diam. 40 mm, length 30 m, black	1 рс			

- Used to provide a protected exit for cables leaving the OptiWay ducting system
- Color: Yellow

OPW-10DRF-TG

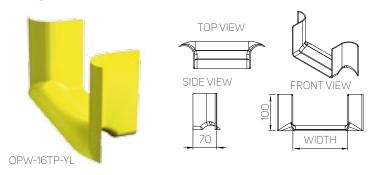
VERTICAL OUTSIDE ELBOW



- Allows ducts to be diverted through 45° or 90° with an inside angle (usually in an upward direction)
- Two joiners required per elbow
- Color: Yellow

Code	Analo	Inner duct size (mm)		Dankon	
Code	Angle	Н	W	Package	
OPW-160A45-YL	45°	100	160	1 pc	
OPW-300A45-YL	45°	100	300	1 pc	
OPW-160A90-YL	90°	100	160	1 pc	
OPW-300A90-YL	90°	100	300	1 pc	
COVERS					
OPW-160A45C-YL	45°	-	160	1 pc	
OPW-300A45C-YL	45°	-	300	1pc	
OPW-160A90C-YL	90°	-	160	1рс	
OPW-300A90C-YL	90°	-	300	1рс	

TRUMPET

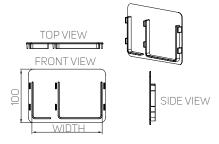


- Used to provide bend-radius control for cables entering or exiting the OptiWay ducting
- One joiner required per trumpet
- Color: Yellow

Code	Inner duct	Inner duct size (mm)		
Code	Н	W	Package	
OPW-10TP-YL	100	100	1 pc	
OPW-16TP-YL	100	160	1 pc	
OPW-30TP-YL	100	300	1 pc	
0. 11 0011 12	.55	333	. 20	

END CAP

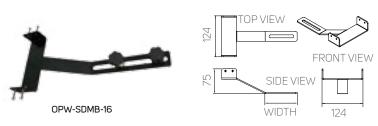




- Provides a clean finish to end of OptiWay run
- Color: Yellow

Code	Inner duct	size (mm)	Package
Code	H W		Package
OPW-16EC-YL	100	160	1 pc
OPW-30EC-YL	100	300	1 pc

SPILLOVER SUPPORT BRACKET



- Spillover OPW-10DR-YL supporting element
- Color: Black
- Package includes: metal bracket and 2× fixing screws

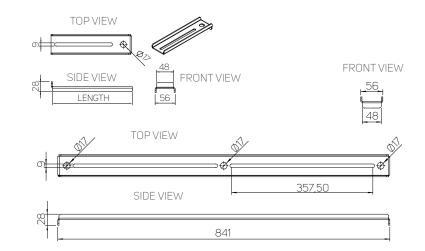
Code	Supported duc	Doeksoo	
Code	Н	W	Package
OPW-SDMB-16	100	160	1 pc
OPW-SDMB-30	100	300	1 pc

Note: All dimensions in mm

THREADED ROD ATTACHMENT BRACKET



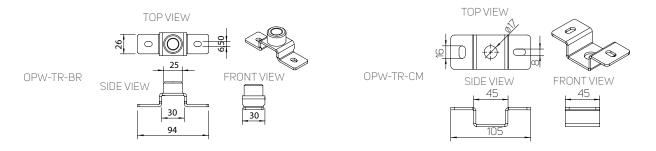
- Basic supporting element
- Color: Black
- Recommended 12–16 mm diameter threaded rod
- Package includes: metal bracket and 2× fixing screws
- Please note: brackets do not include threaded rod



Code	Bracket length (mm)	Mounting type	Rec. rack depth (mm)	Mount. holes	Package
OPW-TRB-16	160	Ceiling-mounted	all	1	1 pc
OPW-TRB-30	300	Ceiling-mounted	all	1	1 pc
OPW-RRB-40	344	Mounted on top of the half part of the rack	800	2	1 pc
OPW-RRB-50	444	Mounted on top of the half part of the rack	1000	2	1 pc
OPW-RRB-60	644	Mounted on top of the half part of the rack	1200	2	1 pc
OPW-RRB-80	641	On top of or overlapping the rack	800	3	1 pc
OPW-RRB-100	841	On top of or overlapping the rack	1000	3	1pc
OPW-RRB-120	1041	On top of or overlapping the rack	1200	3	1pc
OPW-SRB-60	632	OptiWay — side mounting bracket for installation of cable duct on a 600 mm wide rack — front/rear orientation	-	2	1 pc
OPW-SRB-80	832	OptiWay – side mounting bracket for installation of cable duct on a 800 mm wide rack – front/rear orientation	-	2	1рс

Note: Max. distance required between RRB brackets: 900 mm

THREADED ROD MOUNTING BRACKETS

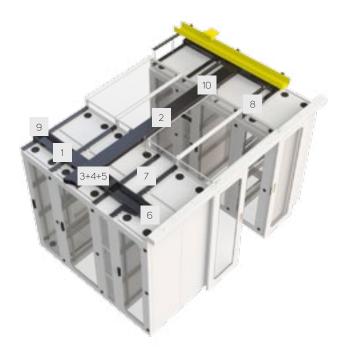


Code	Supported duct inner size (mm)		Manathantona	Package
	Н	Size	Mounting type	
OPW-TR-16/100	1000	M16	From the ceiling	1 pc
OPW-TR-16/200	2000	M16	From the ceiling	1 pc
OPW-TR-16/20	210	M16	On top of the rack using OPW-TR-BR	1 pc
OPW-TR-16/40	400	M16	On top of the rack using OPW-TR-BR	1 pc
OPW-TR-16/60	600	M16	On top of the rack using OPW-TR-BR	1 pc
OPW-TR-BR	-	M16	Threaded rod mounting bracket for top part of RDF/RSF	1 pc
OPW-TR-CM	-	M16	Threaded rod mounting bracket for ceiling installation with OPW-TR-16/100 or 200	1 pc

CABLE MANAGEMENT

TOP DUCT

Top ducts are designed to provide a safe, cost-effective and easy-to-use management system for copper cables above the racks. Top ducts are simple to install and allow for easy installation, manipulation and re-patching of copper cables between server, network and UPS racks. The system is designed to provide a simple connection between the rack rows without ceiling or other exterior support, reducing installation time and allowing for ease of changeability. The connection between rack rows can be multi-layered, and can be combined with the Conteg OptiWay pathway system to provide independent routes for fiber cables. This solution complies with market requirements, recommendations and best practices.



MAIN ADVANTAGES

- Designed for copper cables above racks
- Simple connection between racks and rows of racks
- Compatible and combinable with OPTIWAY
- Backbone cable management system above racks
- Length corresponding to rack width
- Easy installation, maximal tool-less support
- Adjustable cross-connection ducts above corridors and contained aisles

MAIN COMPONENTS

- Top duct
- Cross connection
- Radius protectors and accessories
- Supporting brackets for use with Conteg OptiWay pathway system
- Supporting brackets for use without Conteg OptiWay pathway system
- Accessories for cable management

COLOR SAMPLER: ✓ RAL 9005



Code		Package		
Code	Н	W	L	Package
MAIN DUCT				
CPW-20TD30	70	200	300	2 pcs
CPW-20TD40	70	200	400	2 pcs
CPW-20TD60	70	200	600	2 pcs
CPW-20TD80	70	200	800	2 pcs
CPW-20TD35	70	200	350	1 рс
COVERS				
CPW-20TDC10	-	200	100	2 pcs
CPW-20TDC20	-	200	200	2 pcs
CPW-20TDC30	-	200	300	2 pcs
CPW-20TDC40	-	200	400	2 pcs
CPW-20TDC50	-	200	500	2 pcs
CPW-20TDC60	-	200	600	2 pcs
CPW-20TDC80	-	200	800	2 pcs
CPW-20TDC35	-	200	350	1 pc

TOP DUCTS - CROSS CONNECTION



- Allows a cable management system to be installed across one or more rows of racks
- Includes several adjustable features, allowing the required duct length on a multilevel basis
- Can be covered with tool-less covers

Code		Dackage		
Code	Н	W	L	Package
CROSS CONNECTION				
CPW-20CD100	70	200	1034-1480	1 pc
CPW-20CD140	70	200	1434-2280	1 рс
CPW-20CD180	70	200	1834-3080	1 pc
CPW-20CD220	70	200	2234-3880	1 рс
CPW-20CD260	70	200	2634-4680	1 рс
COVERS				
CPW-20CDC100	-	200	1034-1480	2 pcs
CPW-20CDC140	-	200	1434-2280	2 pcs
CPW-20CDC180	-	200	1834-3080	2 pcs
CPW-20CDC220	-	200	2234-3880	2 pcs
CPW-20CDC260	-	200	2634-4680	2 pcs

TOP DUCT - ACCESSORIES

- Used for multilevel cross connection
- Can be used with/without contained aisle solutions for racks 42U, 45U or 48U in height



Code	Description	Package
CROSS AND TEE MEM	IBERS – FOR MULTILEVEL INTERSECTION	
CPW-20CA	Cross member between CPW-20TDXX and 2x CPW-20CDXX (for CPW-20CDXX when used crosswise)	1 pc
CPW-20CC-SM	Set of 2 support brackets for CPW-20CDXX; only for CCA with 42U racks or for crossover	1 pair
CPW-20CAC-0U	Cover for cross member CPW-20CA	1 pc
CPW-20CAC-3U	Cover for cross member CPW-20CA, offset use	1 pc
CPW-20TAC-0U	Cover of tee connection from CPW-20CDXX to CPW-20TDXX when 45U and 48U racks are used	1 pc
CPW-20TAC-3U	Cover of tee connection from CPW-20CDXX to CPW-20TDXX when CCA or CPW-20CC-SM are used; only for 42U racks	1 pc
CABLE DUCT ACCESS	CORIES	
CPW-20-R17	Radius cable protection for CPW-20TDXX, 170 mm width; 2 pieces with plastic pins	2 pcs
CPW-20-R10	Radius cable protection for CPW-20TDXX, 100 mm width; 2 pieces with plastic pins	2 pcs
CPW-20-R20	Radius cable protection for end of CPW-20TDXX or CPW-20CDXX, 200 mm width; 2 pieces with plastic pins	2 pcs
CPW-20-EC	End cap of CPW-20TDXX	2 pcs
CPW-20-CC	Connecting kit for CPW-20TDXX for direct application on rack roof, unnecessary when using CPW-RRB-XX	10 pcs
CABLE MANAGEMEN	Т	
DP-KP-LEM	Protective ending of cable entries for free standing racks (length 790 mm)	1 pc
HDWM-VCT	Velcro cable ties, 25×300 mm, black	10 pcs
HDWM-VCT-B	Velcro cable belt, 13×5000 mm, black	1 pc
HDWM-VCT-S	Velcro cable ties-small, 13×190 mm, black	25 pcs

SUPPORTING BRACKETS



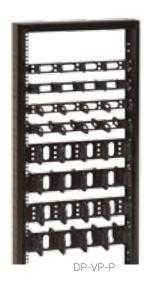
- Ducts can be installed directly onto the roof of the rack with or without the OptiWay pathway system
- Supporting brackets intended for use without OptiWay can be easily installed and adjusted above the racks
- Supporting brackets intended for use with OptiWay
- Combines both OptiWay and Top duct systems
 Equipped with holes for threaded rods, used to support the OptiWay system at different levels

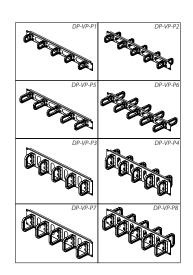
Code	Bracket length (mm)	Mounting type	Recommended rack depth (mm)	Mounting holes	Package
SUPPORTING B	RACKETS W	ITHOUT OPTIWAY			
CPW-BR-BR	-	Top duct bracket for installation of CPW-RRB on racks RSF/RDF	-	-	1 pc
CPW-RRB-40	340	Top duct half-size mounting bracket for installation of cable duct CPW-20TDXX on roof of rack, 80 cm depth	800	2	1pc
CPW-RRB-50	440	$Top\ duct\ half-size\ mounting\ bracket\ for\ installation\ of\ cable\ duct\ CPW-20TDXX\ on\ roof\ of\ rack,\ 100\ cm\ depth$	1000	2	1pc
CPW-RRB-60	540	Top duct half-size mounting bracket for installation of cable duct CPW-20TDXX on roof of rack, 120 cm depth	1200	2	1 pc
CPW-RRB-80	740	Top duct full-size mounting bracket for installation of cable duct CPW-20TDXX on roof of rack, 80 cm depth	800	3	1 pc
CPW-RRB-100	1940	Top duct full-size mounting bracket for installation of cable duct CPW-20TDXX on roof of rack, 100 cm depth	1000	3	1 pc
CPW-RRB-120	1140	Top duct full-size mounting bracket for installation of cable duct CPW-20TDXX on roof of rack, 120 cm depth	1200	3	1 pc

Code	Bracket length (mm)	Mounting type	Recommended rack depth (mm)	Mounting holes	Package
SUPPORTING BRA	ACKETS WITH	OPTIWAY			
OPW-TR-BR	-	Bracket for installing threaded rod on racks RSF/RDF	-	-	1 pc
OPW-TR-16/20	210	Rack mounting threaded rod for OptiWay, M16, 21 cm length	-	-	1 pc
OPW-TR-16/40	400	Rack mounting threaded rod for OptiWay, M16, 40 cm length	-	-	1 рс
OPW-TR-16/60	600	Rack mounting threaded rod for OptiWay, M16, 60 cm length	-	-	1 рс
OPW-TR-16/100	1000	Threaded rod for OptiWay, M16, 100 cm length	-	-	1 pc
OPW-TR-16/200	2000	Threaded rod for OptiWay, M16, 200 cm length	-	-	1 рс
OPW-TR-CM	-	OptiWay ceiling-mounting holder for threaded rod	-	-	1 рс
CPW-ORB-40	380	Top duct half-size mounting bracket for installation of cable duct CPW-20TDXX on rack roof, depth 80 cm; used with Optiway (OPW-TR-BR and OPW-TR-16/XX needed)	800	2	1 рс
CPW-ORB-50	480	Top duct half-size mounting bracket for installing cable duct CPW-20TDXX on rack roof, 100 cm depth; used with OptiWay (OPW-TR-BR and OPW-TR-16/XX needed)	1000	2	1 рс
CPW-ORB-60	580	Top duct half-size mounting bracket for installing cable duct CPW-2OTDXX on rack roof, 120 cm depth; used with OptiWay (OPW-TR-BR and OPW-TR-16/XX needed)	1200	2	1 pc
CPW-ORB-80	880	Top duct full-size mounting bracket for installing cable duct CPW-2OTDXX on rack roof, 80 cm depth; used with OptiWay (OPW-TR-BR and OPW-TR-16/XX needed)	800	3	1 pc
CPW-ORB-100	880	Top duct full-size mounting bracket for installing cable duct CPW-20TDXX on rack roof, 100 cm depth; used with OptiWay (OPW-TR-BR and OPW-TR-16/XX needed)	1000	3	1 рс
CPW-ORB-120	1080	Top duct full-size mounting bracket for installing cable duct CPW-20TDXX on rack roof, 120 cm depth; used with OptiWay (OPW-TR-BR and OPW-TR-16/XX needed)	1200	3	1 рс
CPW-CDB	-	Top duct cross connection support – rack or ceiling installation (used with threaded rods and mounting brackets)	-	2	1 рс

STANDARD CABLE MANAGEMENT

19" WIRE MANAGEMENT PANELS WITH PLASTIC BRACKETS





- Used for storing and managing cables horizontally within the rack
- Height: 1U or 2U
- Available in "front only" and "front and rear" variables
- 5 plastic brackets per side
- Oval openings in panel allow front to rear cabling
- Color: powder-coated RAL 9005; black brackets

Code	H (in U)	Туре	Hook sizes H×D (mm)	Number of brackets	Package
DP-VP-P1	1	Front only	40×50	5	1 pc
DP-VP-P2	1	Both sides	40×50	10	1 pc
DP-VP-P3	2	Front only	80×60	5	1 pc
DP-VP-P4	2	Both sides	80×60	10	1 рс
DP-VP-P5	1	Front only	40×80	5	1 рс
DP-VP-P6	1	Both sides	40×80	10	1 pc
DP-VP-P7	2	Front only	80×80	5	1 pc
DP-VP-P8	2	Both sides	80×80	10	1 pc

PLASTIC CABLE BRACKETS



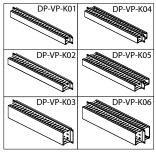
VO-P1-40/50	VO-P5-40/80	VO-P3-80/60	VO-P7-80/80
VO-P2-40/50	VO-P6-40/80	VO-P4-80/60	VO-P8-80/80
VO-40/50	VO-40/80	VO-80/60	VO-80/80
Ø		Ø	Ø

- Mounted on 19" vertical extrusions for management of horizontal and vertical cabling within the rack
- Types:
- a) For managing vertical cables
- b) For managing horizontal cables
- Equipped with metal flange for installing onto 19" vertical extrusions
- Color: powder-coated RAL 9005; black brackets

Code	H (mm)	D (mm)	Orientation	Package
VO-P1-40/50	40	50	Horizontal	10 pcs
VO-P2-40/50	40	50	Vertical	10 pcs
VO-P3-80/60	80	60	Horizontal	10 pcs
VO-P4-80/60	80	60	Vertical	10 pcs
VO-P5-40/80	40	80	Horizontal	10 pcs
VO-P6-40/80	40	80	Vertical	10 pcs
VO-P7-80/80	80	80	Horizontal	10 pcs
VO-P8-80/80	80	80	Vertical	10 pcs

19" WIRE MANAGEMENT PANELS WITH PLASTIC DUCTS

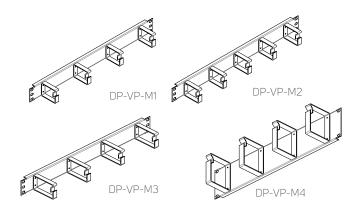




- Used for storing and managing cables horizontally within the rack
- Height: 1U or 2U
- Available in "front-only" and "front-and-rear" variables
- · Plastic duct for cable managing
- Oval openings in panel allow front to rear cable passage
- Color: powder-coated RAL 9005

Code	H (in U)	Туре	Duct sizes H×D (mm)	Package
DP-VP-K01	1	Front only	40×40	1 pc
DP-VP-K02	1	Front only	40×60	1 pc
DP-VP-K03	2	Front only	80×60	1 pc
DP-VP-K04	1	Both sides	40×40	1 pc
DP-VP-K05	1	Both sides	40×60	1 pc
DP-VP-K06	2	Both sides	80×60	1 pc

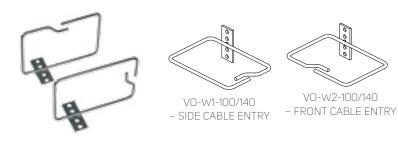
WIRE MANAGEMENT PANELS WITH METAL BRACKETS



- Used for storing and managing cables horizontally within the rack
- Height: 1U or 2U
- · Available in "front only"
- 4 or 5 metal brackets per side
- Full panel without openings
- Color: powder-coated RAL 9005

Code	H (in U)	Hook sizes H×D (mm)	Number of brackets	Package
DP-VP-M1	1	44×55	4	1pc
DP-VP-M2	1	44×55	5	1pc
DP-VP-M3	1	44×76	4	1pc
DP-VP-M4	2	88×76	4	1pc

METAL CABLE BRACKETS



- Mounted on 19" vertical extrusions; used for vertical cable management in racks
- One-chamber dimensions 100×100 or 100×140 mm with front or side cable entry
- Two-chamber dimensions 230×100 or 300×100 mm with side cable entry
- Flange with 4 holes for installation on front or side of 19" vertical extrusion
- Zinc-plated

Code	Dimensi	ons (mm)	Cable aster	Daekage	
Code	W D		Cable entry	Package	
VO-W1-100/140	140	100	side	10 pcs	
VO-W2-100/140	140	100	front	10 pcs	
VO-W2-100/100	100	100	front	10 pcs	
VO-W3-100/230	230	100	2× side	10 pcs	
VO-W3-100/300	300	100	2× side	10 pcs	

VERTICAL WIRE MANAGEMENT PANELS AND CABLE BRACKET HOLDERS



- Used for installation of vertical wire management panels, cable brackets (ordered separately) or additional 19" space in 800 mm wide free-standing racks
- Two designs: HVMF and HVMP
- HVMF ready for cable management; compatible with VO-XX/YY and DP-VP-VR-XX
- HVMP additional 3×1U 19" space (load rating 5 kg per position); compatible with separation frame
- Color: powder-coated RAL 9005

Code	Rack height (in U)	Package
HVMF-15	15	1 pair
HVMF-21	21	1 pair
HVMF-27	27	1 pair
HVMF-33	33	1 pair
HVMF-42	42	1 pair
HVMF-45	45	1 pair
HVMF-48	48	1 pair
HVMP-42	42	1 pair
HVMP-45	45	1 pair
HVMP-48	48	1 pair

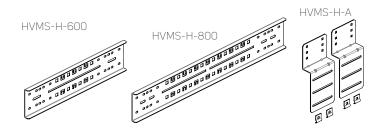
VERTICAL WIRE MANAGEMENT PANELS



- Used for storing and managing cables vertically in 800 mm wide free-standing racks
- For racks 15-48U high
- 80×60 mm plastic duct for cable management
- Oval openings in base of ducts allow front to rear cabling
- Ducts with a minimum height of 33U have divided covers for easier handling
- Installed onto front of vertical extrusions using vertical wire holder; management panels (HVMF) - ordered separately
- Color: powder-coated RAL 9005

Code	Rack height (in U)	Package
DP-VP-VR-15	15	1 рс
DP-VP-VR-21	21	1рс
DP-VP-VR-27	27	1рс
DP-VP-VR-33	33	1рс
DP-VP-VR-42	42	1рс
DP-VP-VR-45	45, 48	1 рс

HORIZONTAL CABLE TRAY AND SIDE CABLE MANAGEMENT HOLDERS



- HVMS-H-A: holder for HVMS-B, DP-UL at RSF or iSEVEN SERVER series with A-type extrusions, mounted on horizontal holders
- HVMS-H: for all rack series (recommended for RM7 and RI7), mounted on vertical extrusions
- Mounting kit included

	Used in rack sizes	(mm)	
Code	RSF with A extrusions/RDF	iSEVEN family	Package
HVMS-H-A	All dimensions	-	1 pair
HVMS-H-600	-	600×600, 800×600	1 pair
HVMS-H-800	800×800	600×800, 800×800	1 pair

SIDE CABLE PERFORATED PANELS FOR A-TYPE EXTRUSIONS



- Used for storing and managing cables horizontally within the rack
- Used in free-standing racks 42-48U in high
- Available width 100 mm
- Installation directly in top and bottom frame of the PREMIUM rack or iSEVEN SERVER (with A type extrusions only)
- Installation kit is included in delivery

Code	Used in rack height (U)	Package
DP-VV-A-42	42	1 pc
DP-VV-A-45	45	1 pc
DP-VV-A-48	48	1 pc

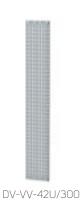
CABLE BASKET TRAYS



- Cable basket trays HVMS-B are used to guide and support vertical cables in free-standing racks between 19" extrusions and side panels
- 140×30 mm (W×D); can be mounted between horizontal holder and side panel
- 300×60 mm and 400×60 mm (W×D); mounted on inner side of horizontal holder
- 140×60 mm (W×D); mounted on inner side of horizontal holder
- Produced for rack sizes 15–48U
- Mounted on holders of vertical extrusions RDF/RI7/ RM7 and RSF with T or U extrusion option; at RSF and iSEVEN SERVER with A-type extrusions, use with HVMS-H-A
- Set of fittings (included)
- · Package includes:
- Set 1: 1× cable basket, 2× holders
- Set 2: 1× cable basket, 4× holders

Code	Dimen	Dimensions (mm)		Used in rack	
Code	н	W	D	height (U)	Package
HVMS-B-600-140/30	605	170	35	15	1 pc of set 1
HVMS-B-800-140/30	805	170	35	21	1 pc of set 1
HVMS-B-1000-140/30	1005	170	35	27	1 pc of set 1
HVMS-B-1400-140/30	1405	170	35	33	1 pc of set 1
HVMS-B-1800-140/30	1805	170	35	42, 45, 48	1 pc of set 1
HVMS-B-600-140/60	605	170	65	15	1 pc of set 1
HVMS-B-800-140/60	805	170	65	21	1 pc of set 1
HVMS-B-1000-140/60	1005	170	65	27	1 pc of set 1
HVMS-B-1400-140/60	1405	170	65	33	1 pc of set 1
HVMS-B-1800-140/60	1805	170	65	42, 45, 48	1 pc of set 1
HVMS-B-1800-300/60	1805	325	65	42, 45, 48	1 pc of set 2
HVMS-B-1800-400/60	1805	425	65	42, 45, 48	1 pc of set 2

SIDE CABLE PERFORATED PANELS



- Panels DP-VV are used to guide and support vertical cables in free-standing racks between 19" extrusions and side panels
- Used in free-standing racks 15–48U in height
 - Available widths 150 mm and 300 mm
 - Installation either directly in top and bottom frame of the rack (OPTIMAL/PREMIUM racks series only) or on vertical extrusion holders (all free-standing rack series)
 - Installation kit included in delivery

Co	ode	Used in rack	Dooksoo
Panel width 150 mm	Panel width 300 mm	height (U)	Package
DP-VV-15U/150	DP-VV-15U/300	15	1 pc
DP-VV-21U/150	DP-VV-21U/300	21	1 pc
DP-VV-27U/150	DP-VV-27U/300	27	1 pc
DP-VV-33U/150	DP-VV-33U/300	33	1 pc
DP-VV-42U/150	DP-VV-42U/300	42	1 pc
DP-VV-45U/150	DP-VV-45U/300	45	1 pc
DP-VV-48U/150	DP-VV-48U/300	48	1 pc

SIDE CABLE GRIDS



HVMS-CH

- Used for managing cables in the sides of rack behind the 19" extrusions
- Installation possible in racks 600, 800 and 1000 mm
- Installation kit included in delivery
- Cable ties not included in delivery
- Package includes: 1× cable grid, 4× holder

Code	Dimensions (mm)	Used in rack depths (mm)	Package
HVMS-CH-400	404×181	600, 800, 1000	1 pc
HVMS-CH-500	504×181	600, 800, 1000	1 pc
HVMS-CH-600	604×181	800, 1000	1 pc
HVMS-CH-700	704×181	800, 1000	1 pc
HVMS-CH-800	804×181	1000	1 pc





COMPARISON OF DIFFERENT DC COOLING PRINCIPLES CRAC CoolTop In-row Air delivery To the whole room Only where needed Only where needed Different power and temperature zones in Impossible Simple Simple one room Future system expansion Very difficult Easy Easy Redundancy cost Very high Low Low; in-row combo possible Occupied floor area Large Small None Contained Hot Aisle arrangement Difficult Easy Possible Contained Cold Aisle arrangement Easy Easy Easy

Easy

Impossible

COMPARISON OF COOLTEG PLUS CW AND COOLTOP CW					
	CoolTeg Plus	CoolTop			
	See page 81	See page 87			
Installation	Between IT racks	On top of IT racks			
Coolant	Water/antifreeze mixture of glycol	Water/antifreeze mixture of glycol			
Piping system	Same	Same			
Application	For all sizes	Min. 4 IT racks.; min. total heat load 30 kW			
Occupied floor area (in DC)	Minimum 0.3 m² per unit	Zero			
Cooling capacity per unit (kW)*	24 (CW30)/50 (CW60)	36 (CT2)/47 (CT3)			
Coefficient of Performance (kW/kW)**	29.7/17.1	51.1/42.3			
Requirements for chiller (chilled water production)	Same	Same			

^{*} Nominal capacity at these conditions: air temperature in hot zone 35 °C, water temperature 10/15 °C, without condensation

Impossible

Modular Closed Loop system

COMPARISON OF DIFFERENT COOLTEG PLUS TYPES				
	CW	DX	хс	
	See page 82	See page 83	See page 85	
System	CoolTeg CW indoor units + water piping system + battery of chillers (variable number of units in each system)	CoolTeg DX indoor unit + refrigerant piping system + outdoor compressor unit AC-PUHZ (always 1+1 in each system)	CoolTeg XC indoor unit + refrigerant piping system + outdoor condenser (always 1+1 in each system)	
Coolant	Water/antifreeze mixture of glycol	Refrigerant R410A	Refrigerant R410A	
System size	Unlimited	Limited by maximal distance and height difference	Limited by maximal distance and height difference	
CAPEX	Reasonable for bigger systems (over 50 kW)	Reasonable for smaller systems (up to 120 kW)	Reasonable for mid-sized systems (up to 200 kW)	
OPEX	Very low, due to variable temperature of water and free-cooling possibility	Higher, in comparison to CW system	Higher, in comparison to CW system	
Advantage	Free-cooling possibility	Simple installation with compressor outside	For wide ambient temperature limits (from -40 °C up to +55 °C); quiet outdoor unit	

^{**} At the same conditions, with maximal airflow and nominal water flow, fully open valve

COOLTEG PLUS COOLING UNITS



CoolTeg equipment represents a family of precision cooling units specifically designed for easy integration between IT racks. These air conditioning units – with various cooling principles, sizes and capacities – are Conteg's main product line for effective targeted cooling, from server rooms to large data centers.





MAIN ADVANTAGES

- Small occupied floor area
- Brings chilled air directly to server rack
- Very low power consumption, due to modern components and control software
- > Modern "server-friendly" control system
- > Simple communication with operator
- > Flexibility of room arrangement
- Easy installation in open or closed architecture
- > Raised floor unnecessary for air distribution
- > Perfect compatibility with Conteg IT racks
- Wide range of accessories (see page 86)

SUITABLE FOR

- Open Aisles
- Contained Cold Aisle
- Contained Hot Aisle
- Modular Closed Loop high capacity cooling system, where air is recirculated inside the rack and no heat is released into the environment

COLOR SAMPLER:





DESCRIPTION:

- Radial fans (with EC motors) for lowest energy consumption and precise control of airflow to servers
- High-efficiency copper-aluminium heat exchangers; also useful for Free-cooling
- Controller with special Conteg software, based on long-term experience from worldwide data centers
- 4.3" color touch-screen display for user-friendly communication

- One display operating up to 16 units per group
- Independent unit control as well as CoolTeg group control functions for entire row of racks
- Wide range of settings adjust performance to specific project
- Communication through TCP/IP protocol (standard)
- · Easy ModBUS and remote management from any computer connected to Internet (via integrated Webserver)
- Other protocols available

- Humidity sensors in both cold and hot zones
- Humidification and dehumidification mode in each unit
- Four temperature sensors per unit

Three cooling systems:

- CW chilled water system
- DX direct expansion system with compressor (in outdoor unit)
- XC direct expansion system with compressor (within CoolTeg unit)

COOLTEG PLUS CW



CoolTeg Plus CW chilled water units are designed to be connected to any system with chillers producing cold water.

MAIN ADVANTAGES

- Unlimited number of units connectible to any single water system
- Free-cooling system conserves ample amounts of energy
- Variable chiller types fulfill any requirements (outdoor noise level, extreme ambient temperatures, etc.)
- Water temperatures variable during the year, conserving energy while controling humidity
- Maintains water temperature between 6 °C and 30 °C

COLOR SAMPLER:

✓ RAL 9005

RAL 7035

		CoolTeg Plus CW		
		CW30	SuperC	CW60
Indoor unit code	Unit	AC-TCW-42-30/XX-XXX	AC-TCW-42-30/XX-XXX	AC-TCW-42-60/XX-XXX
Connected outdoor unit code			Chilled water system	
BASIC DATA				
Cooling system	-		Chilled water	
Architecture ¹	-	Open or closed	Open	Open
Nominal cooling capacity ²	kW	27.4	38.2	61.0
Nominal net cooling capacity ³	kW	26.6	35.7	58.2
Power supply	V/ph/Hz	230/1/50	230/1/50	400/3/50
Running current	Α	4.2	10.8	4.8
Maximum current	Α	6	12	6
Nominal power consumption	W	770	2450	2900
Nominal airflow ⁴	m³/h	3800	6000	10500
Number of fans	Pcs	5	5	3
Motor fan technology	-		EC	
Water flow	kg/h	3900	5200	8800
Filter class ⁵	-		G4	
DIMENSIONS				
Height ⁶	mm (U)		1978 (42U), 2111 (45U), 2245 (48U)	
Width	mm	300	300	600
Depth ⁷	mm		1000 or 1200	
Weight – depth 1000 mm, height 42/45/48U	kg	163/168/173	164/169/174	248/256/264
Weight – depth 1200 mm, height 42/45/48U	kg	173/179/185	174/180/186	260/270/280
PIPING CONNECTION				
Supply pipe diameter and type	-	5/4" female	5/4" female	6/4" female
Return pipe diameter and type	-	5/4" female	5/4" female	6/4" female

¹ CoolTeg units can be used either independently (in rack rows) or integrated in Modular Closed Loop (MCL) – closed architecture rack systems and cooling units; Code changed as per ordering matrix

² Cooling capacity is changed by controller; nominal cooling capacity is calculated at return hot air temperature of 35 °C without condensation (air humidity below dew-point), chilled water temp. 6/12 °C (for CW)

³ Net cooling capacity is the cooling capacity minus fan heat load - the actual unit cooling capacity available to IT equipment

⁴ Airflow is changed by the controller; nominal airflow matches nominal cooling capacity

⁵ Units in Modular Closed Loop architecture (MCL) are delivered without filters

⁶ Without plinth or transport trolley

⁷ Units for Modular Closed Loop architecture (MCL) are available in 1200 mm depth only

COOLTEG PLUS DX



CoolTeg Plus DX units work on the direct expansion principle, with refrigerant circulating between one indoor and one outdoor unit (equipped by compressor).

MAIN ADVANTAGES

- Independent indoor and outdoor unit systems ensure 100% redundancy
- Easy installation and additional capacity expansion
- Keeps data center free of water
- Ecological refrigerant R410A

COLOR SAMPLER: ✓ RAL 9005 RAL 7035

	_	CoolTeg Plus DX		
		DXSmall	DX12	DX20
Indoor unit code	Unit	AC-TDS-42-30/XX-XXX	AC-TDX-42-30/XX-XXX	AC-TDX-42-30/XX-XXX
Connected outdoor unit code		AC-PUHZ-ZRP71V	AC-PUHZ-ZRP125Y	AC-PUHZ-ZRP200Y
BASIC DATA				
Cooling system	-		Direct expansion	
Architecture ¹	-	Open or closed	Open or closed	Open or closed
Nominal cooling capacity ²	kW	7.0	12.1	19.0
Nominal net cooling capacity ³	kW	6.8	11.9	18.0
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50
Running current	Α	0.7	1.2	4.2
Maximum current	Α	6	6	6
Nominal power consumption	W	150	250	770
Nominal airflow ⁴	m³/h	2100	2500	3800
Number of fans	Pcs	3	5	5
Motor fan technology	-		EC	
Refrigerant type	kg/h	R410A		
Filter class ⁵	-		G4	
DIMENSIONS				
Height ⁶	mm (U)		1978 (42U), 2111 (45U), 2245 (48U)	
Width	mm	300	300	300
Depth ⁷	mm		1000 or 1200	
Weight – depth 1000 mm, height 42/45/48U	kg	153/158/163	163/168/173	163/168/173
Weight – depth 1200 mm, height 42/45/48U	kg	163/169/175	173/179/185	173/179/185
PIPING CONNECTION				
Supply pipe diameter and type	-	10 mm braze	10 mm braze	10 mm braze
Return pipe diameter and type	-	16 mm braze	22 mm braze	22 mm braze

¹ CoolTeg units can be used either independently (in rack rows) or integrated in Modular Closed Loop (MCL) – closed architecture rack systems and cooling units; Code changed as per ordering matrix

² Cooling capacity is changed by controller; nominal cooling capacity is calculated at return hot air temperature of 35 °C without condensation (air humidity below dew-point), outdoor temp. +35 °C, clean filters

³ Net cooling capacity is the cooling capacity minus fan heat load - the actual unit cooling capacity available to the IT equipment

⁴ Airflow is changed by the controller; nominal airflow matches nominal cooling capacity

⁵ Units in Modular Closed Loop architecture (MCL) are delivered without filters

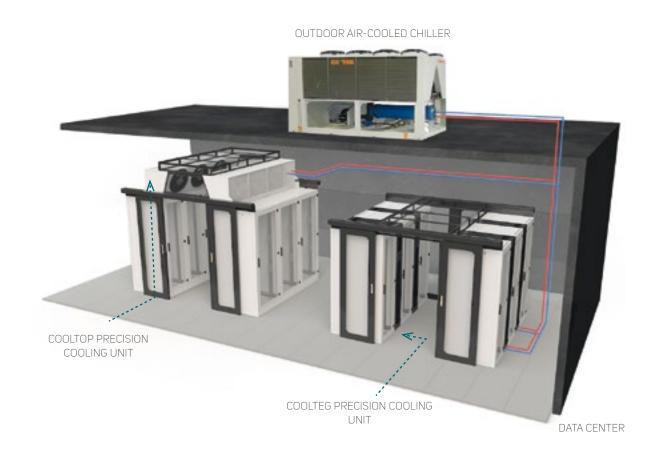
⁶ Without plinth or transport trolley

 $^{^{7}}$ Units for Modular Closed Loop architecture (MCL) are available in 1200 mm depth only

TECHNICAL DATA - DIRECT EXPANSION OUTDOOR UNITS

BASIC DATA	Unit	AC-PUHZ-ZRP71V	AC-PUHZ-ZRP125Y	AC-PUHZ-ZRP200Y
Nominal cooling capacity ¹	kW	7	12	19
Power supply	V/ph/Hz	230/1/50	400/3/50 ²	400/3/50
Running current	Α	7.4	5.8	9.1
Maximum current	A	19	9.5	19
Nominal power consumption	kW	2.0	3.5	5.9
Compressor control	-	Inverter		
Refrigerant control	-	Linear expansion valve		
Refrigerant R410A volume	kg	3.5	5.0	7.1
DIMENSIONS				
Width	mm	950	1050	1050
Depth	mm	330	330	330
Height	mm	943	1338	1338
Weight	kg	67	126	135
PIPING CONNECTIONS				
Liquid pipe (diameter)	mm	10	10	10
Gas pipe (diameter)	mm	16	22	22
Max. piping length	mm	50	75	100
Max. height difference	mm	30	30	30

¹ Data valid for nominal conditions: Outdoor temperature: 35 °C DB, Indoor temperature: 27 °C DB, Refrigerant piping length: 7.5 m, Outdoor temperature range: -15 °C to +46 °C



 $^{^{2}}$ AC-PUHZ-ZRP125 outdoor condensing unit demands power supply: 400 V/3 ph/50 Hz, one-phase units also available

COOLTEG PLUS XC



COLOR SAMPLER:

✓ RAL 9005

RAL 7035

DESCRIPTION:

- The most efficient compressor to date
- Inverter-driven compressor built into internal
- Environmentally-friendly refrigerant R410a
- Electronic expansion valve and advanced steering logic
- Stepless capacity control from 20 to 100%
- Oil separator and Trax-oil inside
- Low- and high-pressure safety switches
- · Refrigerant valves for easy maintenance

CoolTeg Plus XC in-row units are based on the direct expansion principal. A compressor is integrated into the indoor unit, which is connected to its outdoor condenser.

MAIN ADVANTAGES

- Keeps data center free of water
- Compressor safely positioned inside data center
- Very high energy efficiency and stepless capacity control
- Low noise of outdoor unit
- Variable design and size of outdoor unit
- Operation in wide range of outdoor temperatures
- Perfect oil management for piping system
- Ecological refrigerant R410A

or unit type nected outdoor unit IC DATA ing system	Unit -	AC-TXC-42-40/XX-XXX AC-COND2-xx-xx/EcoCool
C DATA	-	AC-COND2-xx-xx/EcoCool
	-	
ing system	-	
		Direct expansion
itecture¹	-	Open or closed
inal cooling capacity²	kW	42.2
inal net cooling capacity³	kW	39.1
er supply	V/f/Hz	400/3/50
ning current	Α	22.7
mum current	Α	25.3
oower consumption (maximum)	kW	3.1
pressor power consumption (maximum)	kW	12.3
inal airflow ⁴	m³/h	9000
ber of radial fans	Pcs	3
r fan technology	-	EC
gerant type	-	R410A
class ⁵	-	G4
ENSIONS		
ht	mm (U)	1978 (42U), 2111 (45U), 2245 (48U)
h	mm	400
h ⁶	mm	1000 or 1200
ht – depth 1000 mm, height 42/45/48U	kg	262/270/278
ht – depth 1200 mm, height 42/45/48U	kg	274/284/294
NECTION DIMENSION		
g diameter – liquid line	mm	22
g diameter – gas line	mm	28

- ¹ CoolTeg Plus units can be used either independently (in rack rows), or integrated in a Modular Closed Loop (MCL) - closed architecture rack systems and cooling units. Indoor unit type is changed as per ordering
- ² Cooling capacity is changed by controller. Nominal cooling capacity is calculated at indoor hot air temperature 35 °C without condensation (air humidity below dew-point), outdoor temp. +35 °C, clean filters.
- 3 Net cooling capacity is the total cooling capacity reduced for fan heat load. Useful unit cooling capacity.
- ⁴ Airflow is automatically changed by controller. Nominal airflow matches nominal cooling capacity.
- ⁵ Units in Modular Closed Loop architecture (MCL) are delivered without filters (standard)
- ⁶ Units in Modular Closed Loop architecture (MCL) are available in 1200 mm depth only
- Operation in outdoor temperatures between -40 °C and +55 °C
- Distance between indoor and outdoor unit up to 60 m

Outdoor unit

- Internal CoolTeg Plus XC unit compatible with any outdoor condenser with variable airflow
- Outdoor unit for heat rejection should be designed based on the condensing
- temperature of the refrigerant, plus typical max. regional ambient temperatures
- For correct design of outdoor unit, please use our Cool Tool selection software or contact our team of technical specialists
- Local conditions determine which of Conteg's wet or dry (adiabatic) coolers can be deployed
- Conteg is currently developing a new adiabatic cooling unit, EcoCool (compatible with CoolTeg Plus XC), to reduce overall cooling system power consumption

FOLLOW THE STEPS TO SET UP THE DESIRED COOLTEG PLUS UNIT CODE!

An example of a correct Code:

42 AC TCW 30 12 A D

1. CoolTeg Plus COOLING SYSTEM			
Code	Options		
TCW	Chilled water		
TDX	Direct expansion		
TDS	DXSmall direct expansion		
TXC	Integrated compressor		

5. GENERATION

First generation Second generation

2. HEIGHT*					
Code Height (in U) External height (mm)					
42	42	1978			
45	45	2111			
48 48 2245					
* Without plinth and transport trolley					

6. CONNECTION				
Code Options				
Т	Тор			
В	Bottom			

3. WIDTH				
Code Width (mm)				
30 300				
40	400*			
60 600**				
* For XC unit only				

** For CW unit only	

7. ARCHITECTURE				
Code Options				
0	Open architecture			
C Closed architecture – MCL				

4. DEPTH				
Code Depth (mm)				
10	1000 mm			
12 1200 mm				

8. DISPLAY				
Code	Options			
D	Door display			
W	Without display			

BASIC ACCESSORIES FOR COOLTEG PLUS AND COOLTOP COOLING UNITS

PRESSURE CONTROL

- Each unit can control airflow based on temperatures in hot and cold zones
- For better airflow control in contained DC layouts (Contained Hot Aisle, Contained Cold Aisle or Modular Closed Loop), grouped CoolTeg Plus and CoolTop units should be equipped with a Pressure Control accessory, consisting of an Electrical cabinet (with controller, differential pressure meter and power supply)
- Airflow control ensures a perfect environment for servers (no risk of server damage caused by over- or under-pressure)
- Pressure control minimizes power consumption of the entire cooling system due to precision-dispensed conditioned air

TCP2SNMP CONVERTER

- All Conteg precision cooling units can be controlled and monitored individually via free contacts
- Additionally, each unit can be equipped with a special communication card for ModBus RTU, SNMP, BacNet or other protocols
- Typically, the most direct method of communication is via group controller (multifunctional touch-screen display). Mod Bus TCP is the standard communication protocol
- Our specially developed TCP2SNMP converter enables the entire group of units to be maintained via group controller with SNMP protocol. It also offers a special web interface for easy group overview

CONDENSATE PUMP

- All Conteg precision cooling units can be connected to a standard gravity drainage sustem
- If such a system is not available under the cooling units, it is necessary to drain the condensate to a piping system located at the top
- Each CoolTeg or CoolTop unit can be equipped with a condensate pump to displace the water from the condensate pan to the drainage pipe network
- Each unit includes a water level sensor to signal drainage problems or to start the pump (exact function depends on specific setting)

DUAL POWER SUPPLY

• Electrical switchboard for two power supply systems

HUMIDIFIER (FOR COOLTEG PLUS)

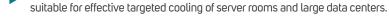
- Each CoolTeg Plus unit includes two humidity sensors, enabling control of the environment
- Dehumidification mode standard for all units
- For increasing air humidity, unit must be equipped with humidifier
- Electrode steam humidifier with maximal capacity 2 kg/hour
- Precise control of steam production, from 0-100%
- Suitable for standard tap water
- Humidifier available in all CoolTeg Plus types and sizes

"PCO WEB" COMMUNICATION CARD

- Accessory compatible with CoolTeg Plus and CoolTop controllers
- Enables additional individual communication (monitoring and control)
- Communication via Ethernet network protocols
- Functions: Web server, E-mail, FTP, SNMP, BACNet, ModBus TCP/IP and

COOLTOP COOLING UNITS





MAIN ADVANTAGES

- Does not occupy floor area
- Brings chilled air directly to cold aisle in front of server racks
- Vertical air loop, with local flexibility
- Extremely low power consumption, due to large heat exchanger and EC axial fans

CoolTop cooling units are specifically designed for easy installation atop IT racks, and are uniquely

- Modern "server-friendly" control system
- > Allows flexibility of room arrangement
- Raised floor unnecessary for air distribution
- Installs easily in contained hot or cold aisle
- Perfectly compatible with Conteg IT racks
- Comes with a wide range of accessories (see page 86)

COLOR SAMPLER:



RAL 7035



SUITABLE FOR

- Contained Cold Aisle
- Contained Hot Aisle
- Can be combined with CoolTeg Plus units in the same group (aisle)

СоокТор						
	CoolTop2 CoolTop3					
Indoor unit code	Unit	AC-TOP2-CW-240/60	AC-TOP3-CW-240/60			
Connected outdoor unit		Chilled wat	er system			
BASIC DATA						
Cooling system	-	Chilled	water			
Architecture	-	Open	Open			
Nominal cooling capacity ¹	kW	37.0	48.0			
Nominal net cooling capacity ²	kW	36.3	46.9			
Power supply	V/ph/Hz	230/1/50				
Running current	Α	3.4	5.0			
Maximum current	Α	4.6	6.8			
Nominal power consumption	W	710	1100			
Nominal airflow ³	m³/h	7700	11000			
Number of fans	Pcs	2 3				
Motor fan technology	-	E	C			
Water flow	kg/h	6200 8200				
Filter class	-	G2 (+ drople	t separator)			
DIMENSIONS						
Height ⁴	mm	60	00			
Width	mm	240	00			
Depth ⁵	mm	400 (600)				
Weight ⁶	kg	175	184			
PIPING CONNECTION						
Supply pipe diameter and type	-	6/4" female				
Return pipe diameter and type	-	6/4" female				

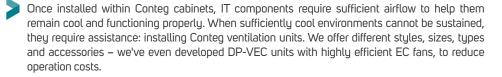
¹ Cooling capacity can be changed via electronic controller. Nominal cooling capacity is stated for air temperature of 35 °C in hot zone, without condensation (relative humidity under dew point). Water temperature is 10/15 °C, clean filters.

- ² Net cooling capacity (without heat from fans) is usable cooling capacity of entire system
- ³ Airflow is changed by control needs. Nominal airflow equals nominal cooling capacity.
- ⁴ Without any base frame
- ⁵ Bottom side length 400 mm; top side length 600 mm

 $^{^{\}rm 6}$ For weight with droplet separator, add 11 kg

VENTILATION UNITS







EC TECHNOLOGY:

Efficient, ecological and economical! New high-quality fans (produced in Europe by the reputable Ebm-papst) feature electronically commuted (or EC) synchronic motors, which offer very low power consumption in comparison to standard AC motors. In fact, our new DP-VEC ventilation unit is seven times lower than the standard DP-VEN, which has equal airflow. Additionally, our DP-VEC provides up to 60% more airflow (with an equal number of fans and required air pressure) than DP-VEN.



Code	Airflow (m³/h)	Rated current max. (A)	Power consumption (W)	Annual power consumption ¹ (kWh/year)	Possible heat removal 2 (kW)	Package
STANDARD AC	FANS	Spe	ecific Fan Power	(SFP) = 611 W/(m	³ /s)	
DP-VEN-02	224	0.180	38	333	0.38	1рс
DP-VEN-03	336	0.270	57	499	0.57	1рс
DP-VEN-04	448	0.360	76	666	0.76	1 pc
DP-VEN-06	672	0.540	114	999	1.14	1 рс
DP-VEN-09	1008	0.810	171	1498	1.71	1 pc
HIGH-END EC	-END EC FANS Specific Fan Power (SFP) = 88 W/(m³/s)					
DP-VEC-03	540	0.057	13.2	116	0.92	1 рс
DP-VEC-06	1080	0.114	26.4	231	1.84	1 рс
DP-VEC-09	1620	0.171	39.6	347	2.75	1 рс

¹ For non-stop operation

 $^{^{2}}$ If temperature difference between intake and exhaust air from the rack is Δt =5 K

	Connecting kit for installation in top or bottom frame of free-standing racks					
Ventilation unit type	600, 800 or 1	200 mm depth	1000 mm depth			
	Without filter	With filter	Without filter	With filter		
DP-VEx-02, 03	DP-VER-03	DP-VER-03F	DP-VER-031	DP-VER-031F		
DP-VEx-04, 06	DP-VER-06	DP-VER-06F	DP-VER-061	DP-VER-061F		
DP-VEx-09	-	-	DP-VER-091	DP-VER-091F		

Replace x with N or C

DESCRIPTION:

- · Used to force airflow through a rack to assist with cooling
- Two to nine fans
- Installation variables: a) In 19" extrusions – horizontally b) In top or bottom frame of free-standing rack
- Connecting kit for ventilation unit needed when installing in top or bottom frame
- Temperature range: -10 °C to 55 °C
- Thermostat ranges from 0-60 °C included (no thermostat optional)
- Voltage range 230 V/50–60 Hz (48V DC optional)
- Protection category: to EN 60 529, IP 20
- Color: powder-coated RAL 9005
- Standard solution with AC fans DP-VEN-XX
- High-end version with most efficient EC fans DP-VEC-XX
- Package includes:
- Ventilation unit with 19" brackets
- Thermostat
- Power supply cable
- DP-MO-01 installation set

FANS



- · Forces air through racks
- Two versions
- With thermostat and metal chassis DP-VEN-01 (for -VC openings)
- Without thermostat and metal chassis -DP-VE-01 (for -VH or -TH openings)

Code	Airflow (m³/h)	Rated current max. (A)	Power consumption (W)	Annual power consumption ¹ (kWh/year)	Possible heat removal ² (kW)	Package
STANDARD AC	STANDARD AC FANS Specific Fan Power (SFP) = 611 W/(m³/s)					
DP-VE-01	112	0.09	19	166	0.19	1рс
DP-VEN-01	112	0.09	19	166	0.19	1рс

¹ For non-stop operation

- Can be installed either on side or top of wallmounting rack
- Special perforation needed ordering code to be extended:
- a) VH for 2× side perforation or TH for 2× top cover perforation; both for DP-VE-01 only b) VC for 2× center-oriented holes for DP-VEN-01
- In top or bottom frame of distribution rack, requires perforated gland plate DP-VE-ROV2 or DP-VE-ROV4
- Package includes:
- DP-VE-01: Fan with grid, power cable, 8× screws, 8× nuts
- DP-VEN-01: Fan in-house, power cable, thermostat, 4× screws, 4× nuts

LITE VENTILATION UNIT



DP-VEL-04

- Forces air through racks to assist with cooling
- Two or four AC fans
- Can be installed in either top or bottom frame of free-standing rack
- Connecting kit for ventilation unit (included)
- \bullet Temperature range: -10 °C to 55 °C
- Thermostat range (if included): 0 °C to 60 °C
- Voltage range 230 V / 50-60 Hz
- Protection category: EN 60529, IP20
- Color: powder-coated RAL 9005
- Package includes:
- Ventilation unit with mounting plate
- Thermostat (if part of model)
- Power supply cable
- Installation set: 4x screws, 4x nuts

Code	Description	Package
DP-VEL-02	Ventilation unit, 2 fans, with thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1рс
DP-VEL-02B	Ventilation unit, 2 fans, without thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1 рс
DP-VEL-02/100	Ventilation unit, 2 fans, with thermostat, for top or bottom installation into racks with depths of 1000 mm	1 рс
DP-VEL-02B/100	Ventilation unit, 2 fans, without thermostat, for top or bottom installation into racks with depths of 1000 mm	1 рс
DP-VEL-04	Ventilation unit, 4 fans, with thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1 pc
DP-VEL-04B	Ventilation unit, 4 fans, without thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1 pc
DP-VEL-04/100	Ventilation unit, 4 fans, with thermostat, for top or bottom installation into racks with depths of 1000 mm	1 pc
DP-VEL-04B/100	Ventilation unit, 4 fans, without thermostat, for top or bottom installation into racks with depths of 1000 mm	1 рс

Code	Airflow (m³/h)	Rated current max. (A)	Power consumption (W)	Annual power consumption¹ (kWh/year)	Possible heat removal ² (kW)
DP-VEL-02	224	0.180	38	333	0.38
DP-VEL-04	448	0.360	76	666	0.76

¹ For non-stop operation

 $^{^2\,}$ If temperature difference between intake and exhaust air from rack is $\Delta t = 5\; K$

 $^{^2\,}$ If temperature difference between intake and exhaust air from rack is $\Delta t = 5\; K$

AIRFLOW MANAGEMENT PRODUCTS



Mechanical separation of hot and cold air in data centers leads to higher energy and power efficiency. Proper separation of the two zones will help achieve both lower temperatures for computers and higher temperatures for cooling machines.

CONTAINED AISLE



SLIDING DOORS



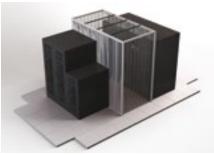
CONTAINED AISLE - FIXED SOLUTION

Door sections

- · Sliding door options:
- a) A standard mechanical operating system (each door wing independent)
- b) A dual synchro system (both door wings moving simultaneously)
- c) An automatic system with electronic opening and closing (via buttons)
- d) An automatic system with Full logic (controlled opening, automatic closing)
- e) A self-closing system (via mechanical sustem)
- A blank panel can be used instead of doors to close one side of contained aisle

Roof

- Solutions available for 42, 45, and 48U racks and for 1000, 1200, 1800 and 2400 mm wide
- Roof sections (available in 400, 600, 800, 900 & 1100 mm) are bolted onto top of racks to prevent mixing of cold air and warm exhaust; 1.5 mm sheet steel frame
- Vertical sections feature an insert panel to accommodate same-height racks
- 6 mm clear polycarbonate roof panels allow for easy integration of fire suppression systems into the cold aisle; optional polycarbonate multiwall



MODULAR SOLUTION - MCA

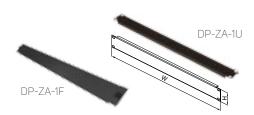
CONTAINED AISLE - MODULAR SOLUTION

- The Modular Contained Aisle system is the ideal solution for retrofit projects where rows of racks with different heights or gaps (when some racks are missing) are required
- Based on a self-supporting design with either clear or multiwall polycarbonate panels on top of roof
- Vertical side roof sections feature flexible PVC foil strips, which can be easily cut to required
- Modular Contained Aisle is equipped with flexible PVC foil strips in place of door
- Available in heights of 2300 and 2500 mm



For more information, please contact our sales or technical team www.conteg.com/contacts

19" BLANK AND FAST BLANK PANELS



- Cover empty positions in rack to minimize by-pass airflow, increase energy efficiency and enhance aesthetic appearance
- Heights: 1, 2, 3, 5, 10 and 15U
- Color: powder-coated RAL 9005
- Tool-less solution uses quarter-turn fasteners
- · Package includes:
- DP-ZA-XU: blank panel
- DP-ZA-XF: blank panel with fasteners

Code	H (in U)	Width	Package
DP-ZA-1U	1	19"	5 pcs
DP-ZA-2U	2	19"	5 pcs
DP-ZA-3U	3	19"	5 pcs
DP-ZA-5U	5	19"	5 pcs
DP-ZA-1F	1	19"	5 pcs
DP-ZA-2F	2	19"	5 pcs
DP-ZA-3F	3	19"	5 pcs
DP-ZA-5F	5	19"	5 pcs

For tool-less design use code with suffix F

AIR SEPARATION FRAME



- Minimize bypass airflow between a rack's hot and cold zones, improving efficiency in support of contained aisle
- Color: powder-coated RAL (standard RAL 7035 or 9005)
- Package includes:
- Set 1: 2× vertical parts, 2× horizontal parts
- Set 2: 2× horizontal parts, 1× brush for vertical parts

Code	Cold zone depth (mm)	H (in U)	Applicable for	W (mm)	Compatible extrusions	Package
DP-ROF-CW-42/80/15 ¹	150	42	RDF, RFS	800	L-type, P-type (RSF)	1 pc of set 1
DP-RSF-CW-42/60/15 ¹	150	42	RSF	600	T-type	1 pc of set 1
DP-RSF-CW-42/80/15 ¹	150	42	RSF	800	U-type	1 pc of set 1
DP-RSF-CWA-42/60 ¹	Variable	42	RSF, ISEVEN	600	A-type	1 pc of set 1
DP-RSF-CWA-42/80 ¹	Variable	42	SERVER	800	A-type	1 pc of set 1
DP-RXF-CW-48/60/5	50	42-48	RSF, ISEVEN	600	L-type	1 pc of set 2
DP-RXF-CW-48/80/5	50	42-48	RSF, RDF, iSEVEN	800	L-type	1 pc of set 2

¹Height (42U) can be replaced by 45 or 48U

AIRFLOW DEFLECTOR



AIRFLOW DEFLECTOR WITH LOUVRE FOR RDF RACK



AIRFLOW DEFLECTOR FOR RDF/RSF RACK

- · Located in the bottom of the rack, deflectors are used to deflect air intake from the raised floor toward the front of the rack, directing cold air into the cold zone
- · Package includes:
- DP-AFD-ROF-80/XXX/15: 1× deflector, 1× cable gasket, 4× nuts, 4× washers
- DP-AFD-VF-XX: 1× louvre, 4× DP-MO-01
- DP-AFD-RSF-XX/15: 1× deflector, 4× nuts, 4× washers

Code	Height	D (mm)	Aplicable	W (mm)	Package
DP-AFD-ROF-80/80/15	2U	800,1200	RDF	800	1 set
DP-AFD-ROF-80/100/15	2U	1000	RDF	800	1 set
DP-AFD-VF-80	Variable Flow Rate Louvre – 800		RDF	-	1 set
DP-AFD-RSF-60/15*	-	-	RSF	600	1 set
DP-AFD-RSF-80/15*	-	-	RSF/RDF	800	1 set

Note: Cold zone depth 150 mm

CHIMNEY



- Designed to lead hot exhaust air to the suspended ceiling; comes complete with gasket kits to ensure optimum sealing between rack and hot plenum; height can be can be adjusted from 750 to 1360 mm, according to site requirements.
- Turning vane is designed to enhance the natural draw effect of the chimney, allowing for cable passage; requires a min. of 200 mm offset on rear extrusions
- Package includes: top plate, chimney, turning vane

Code	Description	Package
DP-HPR-60/120-B	Designed for RSF-XX-60/120; color light gray (RAL 7035)	1 set
DP-HPR-60/120-H	Designed for RSF-XX-60/120; color black (RAL 9005)	1 set
DP-HPR-80/120-B	Designed for RDF/RSF-XX-80/120; color light gray (RAL 7035)	1 set
DP-HPR-80/120-H	Designed for RDF/RSF-XX-80/120; color black (RAL 9005)	1 set

^{*} When used with A type extrusions, min. cold zone depth is 220 mm

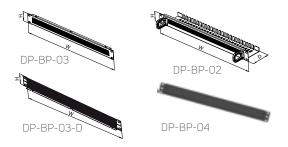
19" VENTED PANEL



- Enables front-to-rear cable passage through empty positions
- Height: 1U
- Width: 19"
- Color: powder-coated RAL 9005

Code	H (in U)	Width	Package
DP-01-VENT	1	19"	1 pc

19" VENTED PANEL WITH BRUSH



- Enables front-to- rear cable passage through empty positions in rack, while helping to minimize by-pass airflow
- Options:
- a) With brush at one side DP-BP-04 –usable for 2U 19" openings at A type extrusions (2 pcs)
- b) With brush DP-BP-03
- c) With brush, divided DP-BO-03-D
- d) With brush and cable management DP-BP-02 vented panel with brush and $\,$ cable management (cable management bar on back and two 40×50 mm cable brackets on sides)
- Height: 1U
- Color: powder-coated RAL 9005

Code	H (in U)	Width	Depth (mm)	Package
DP-BP-02	1	19"	85	1 pc
DP-BP-03	1	19"	-	1 pc
DP-BP-03-D	1	19"	-	1 pc
DP-BP-04	1	19"	-	1 рс

SIDE-TO-SIDE AIRFLOW SOLUTION (STS)



Separating hot and cold air zones is the most effective means of improving data center efficiency, with a goal of reaching perfect hot/cold air separation in each rack. This is very difficult in racks with differing IT components, however, as varying airflow directions create major obstacles. Conteg has the solution for management of side-to-side direction components.

MAIN ADVANTAGES

- Unique technical solution for data centers for side-to-side airflow equipment
- Allows a combination of several chassis with various airflow directions into one rack
- Maximal airflow volume capacity
- Increases computing capacity
- Designed for high-performance network products

Code	Product
SIDE-TO-SIDE AIRFLOW SUPPORT	
RSF-42-80/100-WWWWA-SE1	RSF, 42U×800×1000, S-t-S Airflow solution, Size 1
RSF-42-80/120-WWWWA-SE1	RSF, 42U×800×1200, S-t-S Airflow solution, Size 1
RSF-42-80/120-WWWWA-SE2	RSF, 42U×800×1200, S-t-S Airflow solution, Size 2

Heights of 45 and 48U available upon request

- DESCRIPTION: • Width: 800 mm
- Depth: 1000 or 1200 mm
- Front and rear vented doors, 86% perforation, multipoint lock with DIN profile, key 333
- Load rating up to 1000 kg, depending on the frame tupe
- P-type extrusion on left front side, with possibility of vertical HDWM-VMR-42-12/10F
- Blank panels for side deflector included for all positions
- Frame for separation of hot and cold air space
- Clearance between chassis and side panels is 170 mm

- High Density Wire Management bar on right front side for effective cable management (standard)
- Enables installation of network components for specific data Center layouts:
 - Hot/Cold Aisle
- Contained Aisle
- Chimney Solution
- Modular Closed Loop
- Air-flow supporting channel increases air volume for side air intake (when cable bundles could block network chassis)
- Adaptors must be ordered separately

- · Enables combination of several types of network chassis in one rack; adapters for chassis need to be ordered separately
- Parts of network chassis allow cable management only on right side; can use with HDWM-HM-3F to guide cable bundles of cables on opposite sides above and below the chassis into another installed cable manager -HDWM-VMR-42-12/10F.
- Side extension kit increases rack width to allow more air volume for side air intake; necessary for some types of network chassis



S-T-S WITH TWO AIRFLOW SUPPORTING CHANNELS



SIDE EXTENSION KIT 1200 MM DEPTH RACK



S-T-S WITH TWO AIRFLOW SUPPORTING CHANNELS

Side-to-Side Airflow Support - Accessories				
Code	Description	Package		
DP-STS-EXT-2-42*	Side extension kit 100mm for Airflow support (rack height 42U, depth 1200 mm)	1 рс		
DP-STS-EXT-2-45*	Side extension kit 100mm for Airflow support (rack height 45U, depth 1200 mm)	1 pc		
DP-STS-EXT-2-48*	Side extension kit 100mm for Airflow support (rack height 48U, depth 1200 mm)	1 pc		
DP-STS-1-SACH	Airflow supporting channel for chassis S-t-S - Size 1	1 pc		
DP-STS-2-SACH	Airflow supporting channel for chassis S-t-S - Size 2	1pc		

^{*} Min. ordering quantity: 2 pcs

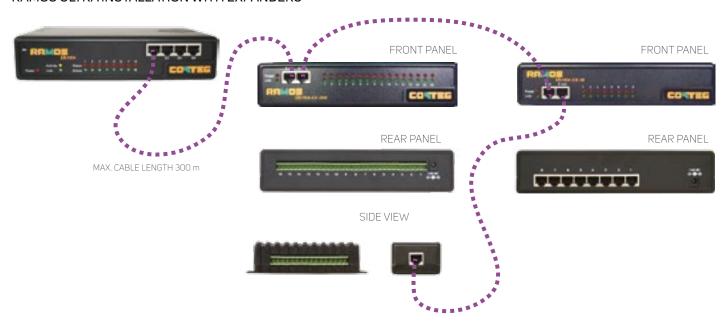


RACK MONITORING SYSTEM

	RAMOS Ultra / Ultra ACS	RAMOS Optima	RAMOS Plus / Plus GSM	RAMOS Mini
	See pages 97/100	See page 98	See page 98	See page 98
Suitable for	DC and server rooms	Multiple cabinets or server room	Single or few cabinets	Single racks/Cabinets
Sensors	8× / 2× intelligent port (expandable up to 500 sensors)	8× intelligent ports	4× intelligent ports	1× IN, 1× OUT, up to 3 sensors (T&H)
Communication	LAN: SNMP v1, v2 & v3; VPN; Modbus GSM: with plug-in GSM modem Serial: RS485 (Modbus only)	LAN: SNMP v1 & v2	LAN: SNMP v1, v2 & v3 GSM: GSM variant only	LAN: SNMP v1 & v2; XML
Notifications	Emails SNMP traps SMS* MMS* Call* Speech Skype call & SMS Relay control* Door control* Server restart / shutdown / wake-up And many more	Emails SNMP traps Output control for dry contact* Siren & strobe* or external relay*	Emails SNMP traps Output control for dry contact* Siren & strobe* or external relay* (SMS & call-in variant with built GSM modem)	Emails SNMP traps Output control for Latch* Siren & strobe* or external relay*
Integration to CONTEG Pro Server	Free	Free	Free	Licensed
BENEFITS	Intelligent ports variability Expandable solution Monitoring of 3rd-party devices Sensor mapping	Intelligent ports variability	Intelligent ports variability Supports all intelligent accessories Variant with built-in GSM modem	Small and simple Manual relay control
Parameters				
Dimensions H×W×D	216 ×138×46 mm	216 ×138×46 mm	115 ×64×32 mm	66 ×66×28 mm
Voltage	7.5 V DC / 12 V DC	7.5 V DC	12 V DC	5 V DC
Power consumption	5.025 W, 0.67 A	1.12 W, 0.15 A	1/1.5 W, 0.1/0.125 A	1 W, 0.2 A

^{*} Requires appropriate accessories

RAMOS ULTRA INSTALLATION WITH EXPANDERS



RAMOS ULTRA



RAMOS Ultra is an excellent, expandable monitoring solution for server rooms and data centers – an excellent choice for any design where sensor mapping, smart graphs, intelligent notification or a GSM gateway are required without external software/application. Includes a user-friendly web interface for sensor configuration, data collection and extensive graphing.

Code	Package includes
RAMOS ULTRA	Monitoring device RAMOS Ultra, power adapter with EU power cord, 1.5 m crossover patch cord, 1U high bracket with screws and installation CD
RAMOS ULTRA-EX-016	RAMOS Ultra Expander O16, power adapter with EU power cord, 1U high bracket with screws and 1.5 m LAN cable
RAMOS ULTRA-EX-I8	RAMOS Ultra Expander I8, power adapter with EU power cord, 1U high bracket with screws and 1.5 m LAN cable
RAMOS ULTRA-EX-D64	RAMOS Ultra Expander D64, power adapter with EU power cord, 1U high bracket with screws and LAN cable 1.5 m
RAMOS ULTRA-EX-D128	RAMOS Ultra Expander D128, power adapter with EU power cord, 1U high bracket with screws and LAN cable 1.5 m
RAMOS ULTRA-EX-D192	RAMOS Ultra Expander D192, power adapter with power cord, 2U high bracket with screws and LAN cable 1.5 m

DESCRIPTION:

- 8 auto-sense intelligent sensor ports; can be set to input or output
- Monitors up to 500 intelligent sensors using expansion modules (RAMOS Ultra-EX-O16 and RAMOS Ultra-EX-I8); daisy-chain connected to 4 expansion ports
- Max. 300 m connection cable (LAN Cat. 5/6) either between expander and RAMOS or between expanders
- Accessories powered via intelligent ports
- Sensors/detectors can be added to uploaded pictures/maps for improved visual monitoring

- Fully embedded TCP/IP and web server
- Internal Linux web-based interface for easy configuration and monitoring
- Network Management System integration
- · User/administrator login for improved security (User & Group management)
- 80 virtual sensors for monitoring 3rd-part hardware (via Modbus, SNMP, ping and more)
- Integrates with network management systems via SNMP v1, v2 and Encrypted v3
- Full Modbus support: Modbus master/slave, Modbus RTU and Modbus TCP/IP

- Built-in graphing and data logging, internally or to remote PC
- PHP web-based interface allowing end-user changes (i.e. language translation)
- · Battery-backed clock for accurate system date
- Clever notification features email and SNMP traps, SMS/MMS, call, speech and many more
- Can access external GPRS/GSM modem, Bluetooth and Wi-Fi USB adapters





	RAMOS Ultra – REAR VIEW
1	7.5 V DC power input
2	8× intelligent sensor ports (RJ-45)
3	Standard 10/100 Base-T Ethernet
4	USB port 2.0 for GSM/GPRS, Bluetooth or Wi-Fi adapter
5	Modbus connectivity – RS485
6	Reset button
7	Output from int. microphone
8	Input for ext. microphone and output for ext. speaker
9	External ground

RAMOS Ultra – FRONT VIEW			
10	4× expansion ports		
11	Internal microphone		
12	Power indicating LED		
13	Activity/link indicating LED		
14	16 LEDs, indicating online status of connected sensors		

RAMOS Ultra / Ultra ACS EXPANDERS:

RAMOS Ultra-EX-18

• Adds 8 intelligent ports for intelligent accessories

RAMOS Ultra-EX-016

· Adds 16 opto-isolated dry contact inputs

RAMOS Ultra-EX-D64

• Adds 64 dry contacts (IN/OUT) via 16 RJ-45 ports (each with 4 dry contacts)

RAMOS Ultra-EX-D128

• Adds 128 dry contacts (IN/OUT) via 32 RJ-45 ports (each with 4 dry contacts)

RAMOS Ultra-EX-D192

• Adds 192 dry contacts (IN/OUT) via 48 RJ-45 ports (each with 4 dry contacts)

RAMOS OPTIMA







REAR VIEW

DESCRIPTION:

- 8 auto-sense intelligent sensor ports; can be set to either input or output
- All accessories powered via Intelligent ports
- Communication via SNMP v1 and v2
- Notification via email and SNMP traps

RAMOS Optima is an accurate, intelligent high-speed monitoring device suitable for one or more racks, where up to 8 intelligent ports are required.

Code	Package includes
RAMOS OPTIMA	RAMOS Optima monitoring device, 1× temperature sensor with 30 cm long cable, power adapter with power cord, 1.5 m crossover patch cord cable, 1U high bracket with screws and installation CD

	RAMOS Optima				
	Kristos optimu				
1	LED power indicator				
2	LED activity/link indicator				
3	16 LEDs indicating online status of connected sensors				
4	8× intelligent sensor ports (RJ-45)				
5	Standard 10/100 Base-T Ethernet				
6	7.5 V DC power input				

- Fully embedded TCP/IP and web server
- Internal Linux web-based interface for easy configuration and monitoring
- · Battery-backed clock for accurate system date and time
- Syslog (internal/external) and history with sensor graphs
- Network management system integration
- · Security login for user and administrator

RAMOS PLUS



DESCRIPTION:

- 4 auto-sense intelligent sensor ports; can be set to either input or output
- · All accessories powered via Intelligent ports
- Communication via SNMP v1, v2 and v3



RAMOS Plus is an entry model of the RAMOS intelligent range, designed for use in indoor and outdoor cabinets. Available in either standard or GSM options, the latter with a built-in GSM modem and external antenna. Four intelligent ports provide ample opportunity for multiple use. Improved intelligent ports support a full range of accessories, including RAMOS Ultra for intelligent ports.

Code	Package includes
RAMOS PLUS	RAMOS Plus monitoring device, power adapter, 1.5 m crossover patch cord cable, bracket with screws and installation CD

- Notification via email and SNMP traps
- Fully embedded TCP/IP and web server
- Syslog and history with sensor graphs
- · Network management system integration
- · Security login for user and administrator
- Optional built-in GSM modem available upon request

RAMOS MINI





RAMOS Mini is designed for deployment within a single rack, monitoring internal and external environments. Attached to a network, it reports the status of sensors deployed in and around racks to any location worldwide. Through the use of SNMP traps, it can fully integrate with any network management software.

Code Package includes		Package includes
	RAMOS MINI	RAMOS Mini, up to 3 sensors (temperature and humidity), 1× IN, 1× OUT, incl. RMS-ST-O2, RMS-PW-O5, straight and angle holder, installation CD

DESCRIPTION:

- Up to 3 temperature or humidity sensors (with new firmware)
- 1× dry contact input
- 1× output (relay switch contact up to 50 V DC)
- Two alert ranges per sensor
- Notification alarm via email and SNMP trap to several recipients
- · Built-in graphic web interface for configuration and value monitoring
- Each sensor comes complete with unique ID
- Alarm updates via email and SNMP trap or SMS (over CONTEG Pro Server Software or 3rd-party software)
- Open communication protocols (web, email, SNMP, XML)
- Security: password, range of IP addresses
- Optional 255 data point graph view

ACCESSORIES

INTELLIGENT ACCESSORIES FOR RAMOS ULTRA, OPTIMA AND PLUS:

		RAMOS		
Code	Description		Optima	Plus
RMS-I-ST	One wire temperature sensor with 30 cm cable; can be extended up to 30 m (Cat. 5/6 LAN) via Cat. 5 coupler (included)	+	+	+
RMS-I-STH	One wire temperature and humidity sensor with 30 cm cable. Humidity range 0–100%. Can be extended up to 30 m (Cat. 5/6 LAN) via CAT. 5 coupler (included).	+	+	+
RMS-I-STHB	One wire temperature and humidity sensor in Box with free 1.5 m LAN cable. Humidity range 0–100%. Can be extended up to 300 m (Cat. 5/6 LAN).	+	+	+
RMS-I-AF	Airflow sensor with attached 1.5 m LAN cable (Cat. 5). On/off airflow signal alarm.	+	+	+
RMS-I-AS	Siren & Strobe light with attached LAN cable (Cat. 5) 1.5 m. 100 db siren sound and flashing strobe interval 400×10^{-2} per minute. Cable can be extended up to 30 m (Cat. 5/6 LAN).	+	+	+
RMS-I-DE-01	Smoke detector with attached 1.5 m LAN cable (Cat. 5). On/off smoke detector alarm. Can be connected via dry contact when 9 V battery is used.	+	+	+
RMS-I-DE-02	PIR motion detector with attached 1.5 m LAN cable (Cat. 5). Can be connected in a chain of up to 10 Motion Detector Sensors on a single port. 60° detection angle. 3 m detection range.	+	+	+
RMS-I-DE-04	Spot water sensor with 4.5 m cable. Maximum cable extension 60 m.	+	+	+
RMS-I-DE-06	Rope water sensor with 3 m detection cable. 1.5 m LAN communication cable (Cat. 5) included (max. length 30 m). Protects water—sensitive equipment from potential disaster. Detects battery Acid for short-term exposure. Sensor cable can be extended via RMS-I-DE-06-EXT3.	+	+	+
RMS-I-DE-06-EXT3	3 m sensor rope extension for RMS-I-DE-06; maximum extension 50 m	+	+	+
RMS-I-DE-07	Rope water locate sensor with 3 m length detection cable, 6 m non-detection cable and connection cable 1.5 m; (can be extended by LAN cable (Cat. 5e/6)	+	+	+
RMS-I-DE-07-EXT3	3 m rope sensor extension for RMS-I-DE-07; maximum extension 50 m	+	+	+
RMS-I-DRC	Dry contact with 4.5 m cable, input or output; sources up to 20 mA when used as input. Input voltage range 0 to 5 V. Open / Closed contact switch sensor.	+	+	+
RMS-I-MK	Magnetic door contact with 4.5 m cable (mounting holder included). Maximum extension 300 m. Open/closed contact switch.	+	+	+
RMS-I-PWR-NO	AC-Sensor controlled relay normally open (110 V / 220 V). 1.5 m LAN cable included; maximum length 30 m. Built-in 10A Fuse. C13 and C14 socket connection. Switch can be controlled by any sensor.	+	+	+
RMS-I-VC	4–20 mA Converter with attached 1.5 m LAN cable (Cat. 5). Collects analog values from a wide array of sensors.	+	+	+
RMS-I-CON	RJ45-RJ45 coupler (Cat. 5e) for sensor cable extension, package of 10 pcs	+	+	+
RAMOS ULTRA-EX-D8-8	Expansion board adds 8 dry contacts (IN/OUT) to one intelligent port (RJ45); each can be configured as input or output (sink up to 20 mA). Maximum length of connection cable (LAN Cat. 5/6) 300 m.	+	-	+
RMS-U-DST	Daisy-chain temperature sensor with attached 1.5 m LAN cable (Cat. 5). Up to 8 sensors can be connected to a single intelligent sensor port in 150 m total cable length.	+	-	+
RMS-U-DST-8	AS-U-DST-8 Package with 8 pcs of RMS-U-DST		-	+
RSM-U-GSM	USB Modem (Quad- band) with audio cable for connection to RAMOS ULTRA	+	-	_*
RMS-U-GSM-3G	USB 3G modem without audio connection	+	-	_*
RMS-U-RB-8	Box with 8 changeover relay contacts for control (manually or via notification)	+	-	+

^{*}Require GSM variant of RAMOS Plus

RAMOS MINI ACCESSORIES:

Code	Description	Package
RMS-ST-02	1-wire temperature sensor with 3 m cable; -10 °C to +80 °C	1 pc
RMS-SH-02	1-wire humidity sensor with 3 m cable; 0–100% RH	1pc
RMS-STH-01	1-wire temperature & humidity sensor with 3 m cable; -30 °C to +80 °C; 0–100% RH	1рс
RMS-ST-04	Daisy-chain temperature sensor with 3 m cable; -10 °C to +80 °C	1рс
RMS-STH-02	Daisy-chain temperature and humidity sensor with 3 m cable; -10 $^{\circ}$ C to +80 $^{\circ}$ C; 0–100% RH	1рс
RMS-DE-01	Optical smoke detector*	1рс
RMS-DE-02	PIR motion detector*	1рс
RMS-DE-04	Flood detector*	1рс
RMS-DE-05	Broken glass dual detector*	1рс
RMS-VS	Vibration sensor	1рс
RMS-MK-01	Magnetic door contact with fixing bracket and 2.5 m cable	1рс
RMS-CON-04	Hub for connecting two 1-wire sensors to 1 Wire bus	1рс
RMS-AS-01	Acoustic siren with LED signaling, 120 dB*	1рс
RMR-PWR-01	Power Box, remote switching external devices up to 230 V / 10 A, power detection feature	1рс
RMS-PW-05	Universal power supply 5 V DC	1рс
RMS-PW-12	EU plug power supply for accessories 12 V DC	1 рс

^{*}Requires external power supply 12V DC (e.g. RMS-PW-12)

ACCESS CONTROL SYSTEM (ACS)

Most technical and server rooms face a similar challenge: technical staff require unlimited physical access to servers and other equipment. Each group has different needs, however, meaning individual access rights must be defined; setting up and maintaining these can be difficult and time-consuming.

RAMOS ULTRA ACS



RAMOS Ultra ACS is an expandable monitoring and ACS solution for server rooms and data centers. ACS features require our CONTEG Pro Server for setting up access privileges and users, and comes with all the features of our standard RAMOS Ultra — in which sensors, mapping, smart graphs, intelligent notification or a GSM gateway are required. Equipped with a user friendly web interface for sensor configuration, data collection and extensive graphing.



Code	Description
RAMOS ULTRA ACS	Monitoring device RAMOS Ultra; 2× Intelligent ports (In/Out); 2× expansion ports on front panel; 2× ACS reader ports; 1× ACS door port; 2× ACS Fingerprint reader port; 4× video ports and 4× PTZ ports; Modbus (RS-485); USB 2.0 for connection GSM, Bluetooth or Wi-Fi adapter; power adapter with power cord; 1.5 m crossover patch cord cable; 1U high bracket with screws and installation CD; included lock port converter
RMS-ACS-U-RDU	RAMOS Ultra ACS Expander – Rack Door Unit; controls up to 100 RDU expander units per single RAMOS Ultra; daisy-chain connection up to 25 RDU on single expansion port; 2 intelligent ports for sensors/detectors; power supply with power cord and 1.5 m LAN cable included (requires RAMOS Ultra / Ultra ACS main device and CONTEG Pro Server for setup)

DESCRIPTION:

- Identical to standard RAMOS Ultra (page 97), except for the following:
- Monitors with up to 500 intelligent sensors using expansion modules (RAMOS ULTRA-EX-O16 and RAMOS ULTRA-EX-I8) daisy-chain connected to 2 Expansion ports
- 2× auto-sense intelligent sensor ports, which can be set to input or output
- 2× ports for card readers or keypads
- 1× port for electronic latch or electromagnetic
- 2× USB ports for fingerprint readers
- 4× USB video ports and 4 PTZ control ports

- Multiple verification options (e.g. fingerprint + PIN + card) can be used for access

Rack Door Unit (RDU):

- ACS expander
- Compatible with RAMOS Ultra and RAMOS Ultra
- 1× (green) port for card reader/keypad
- 1× (red) port for electronic latch or electromagnetic
- 2× (yellow) auto-sense intelligent sensor ports
- Connected via RJ-45 expansion ports using standard (Cat. 5 LAN cable)

- Can be daisy-chained using E-Out (Silver)/E-In (Blue) ports to other expansion boards
- Maximum length of connection cable (LAN Cat. 5/6) between expander and RAMOS (or between expanders) 300 mm; max. 25 RDU in single expansion line
- 12V DC power supply (included)





ACS ACCESSORIES FOR RDU AND RAMOS ULTRA ACS:

Code	Description	Package
RMS-ACS-FPR	Fingerprint reader for RAMOS Ultra ACS unit; includes cable and bracket for mounting	1 pc
RMS-ACS-FPR-D	USB fingerprint reader for PC / Server; includes USB cable	1 pc
RMS-ACS-DCR	USB desktop card reader (EM&HID format 125 kHz with USB cable); suitable for setting access in CONTEG Pro Server	1 pc
RMS-ACS-U-CR	Card reader (EM&HID format 125 kHz) with 4.5 m cable	1 pc
RMS-ACS-U-KER	Keypad with built-in card reader (EM format 125 kHz) with 4.5 m cable	1 pc
DP-ZM-EML-S	Electronic magnetic door lock (Small) with 3 m cable	1 pc
DP-ZM-EML-LW	Electronic magnetic door lock (large – waterproof) with 3 m cable	1 pc
DP-ZM-E1	Electronic door lock with profile half cylinder, 4.5 m cable included	1 pc
DP-ZM-E2	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included	1 pc
RMS-CON-ACS	Hub for connecting latches to door rack unit (for DP-ZM-E1 and DP-ZM-E2 only)	1 pc

ACCESS MEDIA:

Code	Description	Package
RMS-ACS-EMT-10	EM Tags, 125 kHz	10 pcs
RMS-ACS-EMT-25	EM Tags, 125 kHz	25 pcs
RMS-ACS-EMC-10	EM Cards, 125 kHz	10 pcs
RMS-ACS-EMC-25	EM Cards, 125 kHz	25 pcs
RMS-ACS-HID-10	HID Prox Cards, 125 kHz	10 pcs
RMS-ACS-HID-25	HID Prox Cards, 125 kHz	25 pcs

STANDALONE ELECTRONIC LATCHES





DESCRIPTION:

- Unique electrical override feature
- Supports up to 20 RFID cards (RMS-ZM-ES-C) or PINs (RMS-ZM-ES-K)
- Four to seven digit PIN code
- Keyless entry simplifies access control
- Single component design enables easier integration, no wiring

The Self-Contained Electronic Locking System features a single component design that can easily be mounted to a standard panel prep, simplifying the integration of electronic access into cabinets while eliminating the need for the wiring or connecting of separate components.

Code	Description	
DP-ZM-ES-C	Standalone electronic latch with card reader 13.56 MHz; battery case included, verification via card only	1 pc
DP-ZM-ES-K	Standalone electronic latch with keypad; battery case included, verification by PIN only	1 pc
DP-ZM-ES-PK	Programming key for standalone electronic latch (red)	1 pc
DP-ZM-ES-MK	Manager key for standalone electronic latch (black)	1 pc
DP-ZM-ES-UK	User key for standalone electronic latch (black)	1 pc
RMS-ACS-CMIF	MIFARE® Classic Cards, 13.56 MHz	10 pcs

- Operates on three AA batteries (not included)
- Low power operation extends battery replacement interval (50k cycles)
- LED indicator provides visual feedback during programming and operation
- Secure cam lock mechanism
- Fits industry standard 25x150 panel prep
- Programming key offers simple, quick enrollment
- Supports 1 programming key, up to 10 manager keys and up to 10 user keys
- · Single point locking mechanism only

CONTEG PRO SERVER MANAGEMENT SOFTWARE





- CONTEG Pro Server (CPS) takes the best features of environmental, security monitoring and access control systems and combines them into one centralized management software package.
- MS Windows based software (server and client application)
- User-friendly application supporting most Conteg products >
- Min. server/client application hardware requirement specified on Conteg website (www.conteg.com/conteg-pro-server-management-software)

Code	Description
RMS-CPS	Free CPS software for integration with intelligent RAMOS (includes free licenses for 1× IP Camera, 1× virtual sensor, 1× Modbus sensor, 1× CoolTeg Plus, 1× PDU and 1× Template)
RMS-CPS-VS	Adds one virtual sensor to CONTEG Pro Server license
RMS-CPS-MS	Adds one Modbus sensor (via RAMOS Ultra RS-485 port) to CONTEG Pro Server license
RMS-CPS-CTP	Adds one CoolTeg Plus unit (communication via Touch-display) to CONTEG Pro Server license
RMS-CPS-PDU-1U	Adds one Conteg 1U PDU unit (communication via SNMP) to CONTEG Pro Server license
RMS-CPS-PDU-0U	Adds one Conteg OU PDU unit (communication via SNMP) to CONTEG Pro Server license
RMS-CPS-IP-CAM	Adds one third-party IP Camera to CONTEG Pro Server license
RMS-CPS-TMPL	Adds one network device (configured via template) to CONTEG Pro Server license

DESCRIPTION:

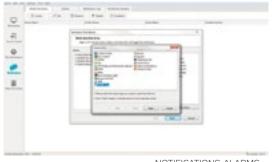
- Free integration and management of intelligent RAMOS solutions (Plus, Optima, Ultra and Ultra
- Centralizes RAMOS devices into one application
- Supports direct integration of third-party SNMP and Modbus TCP network devices
- Supports fingerprint access verification (with new RAMOS Ultra ACS)
- Access management users, groups and history of access
- Monitoring management sensors, detectors, access and video surveillance
- Customizable mapping feature
- · Supports many types of third-party IP cameras and creates event initiation records
- Notification via many types of actions/alarms
- Customizable client access to server (multi-tenant user/group access)
- Can be shown on multiple customizable screens
- Supports basic calculations via virtual sensors (summary & division)



MONITORING-MAPS



MONITORING-GRAPHS



NOTIFICATIONS-ALARMS



ACS-HISTORY

AEGIS DCIM







- Conteg has developed the AEGIS DCIM system which collects, analyzes and reports all relevant information using standardized data communication protocols. With DCIM, you have full control of your data center.
- Data centers have changed considerably over the years due to the evolution of information technology, becoming the critical nerve center of today's enterprise. Efficiency has become an important global topic among end-users, policy makers, technology providers and facility architects.
- Contains a real-time performance dashboard, with metrics such as PUE, EUE, EER, etc. Monitors data center status, reporting defects/equipment malfunctions and temperature problems such as excessive humidity. AEGIS also controls strategic equipment, improving PUE.
- PUE (Power Usage Effectiveness), developed by The Green Grid, is a data center metric used to measure overall efficiency. PUE is equal to the total power used by the facility to support the IT load (cooling, UPS and lighting, for example) divided by total IT equipment power consumption. In general, PUE calculations (as opposed to manually gathered information) take place on a monthly basis. Manual calculation is only useful for reporting. If you want to improve data center operation, metrics should be based on real-time information.
- Improving efficiency reduces both your data center's operational expenses (OPEX) and carbon footprint, assuring overall facility compliance with both current and developing governmental regulations. Data center monitoring and control is vital for maintaining maximum availability of your critical operations.

AEGIS DCIM

Conteg's AEGIS DCIM (Data Center Infrastructure Management) is a complete monitoring application for managing data center infrastructure.

DATA CENTER EFFICIENCY

Improving efficiency reduces both the data center's operational expenses (OPEX) and carbon footprint. It also helps make the facility compliant with current and future developing governmental regulations.

INTEGRATION WITH THIRD-PARTY **APPLICATIONS**

Conteg's AEGIS DCIM is designed to operate with all types of devices, equipment and third-party software applications. Supports communication with such data bases as SAP BAPI (Business

Application Programming Interface), MS SQL server 2008, My SQL, Oracle, MS Access, ODBC, OLEDB and Grid Control (data mining tool enabling OPC and SNMP). Fully customizable, based on the individual needs of each client.

SCALABLE SOLUTIONS

Conteg's AEGIS Infrastructure Management can be adapted to fit any scenario, meeting data center project requirements regardless of size or scale.

TECHNICAL INFORMATION

- Metrics such as PUE, EUE, EER, etc. shown on dashboard
- Alarm for defects/equipment malfunctions and temperature problems, such as excessive

- · Monitoring and reporting of IT equipment energy consumption - at facility, row, rack or outlet level
- Electrical breaker load monitoring, based on actual and daily peak values
- Capacity reports
- · Local and remote accessibility via standard web portal
- Data security on various levels



For more information, please contact our sales or technical team: www.conteg.com/contacts

KEYBOARD-VIDEO-MOUSE SOLUTIONS (KVM/LCD)

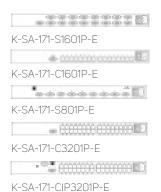
KVM CONSOLES



KVM is a solution for secure access in server farms where simple, universal access is required.



K-SA-171



DESCRIPTION:

• Designed for deployment in server rooms or data centers, allowing either direct or remote access to individual servers (or their cascades). Console enables server configuration and administration from all main manufacturers (IBM, HP, DELL, SUN and others). Integrated KVM switch, LCD console (including

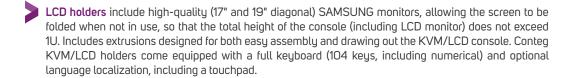
keyboard and touch-pad) housed within a compact (1U high) design.

- Available in two types:
- Sxxxx DB15 direct cable
- Cxxxx Cat. 5 dongle via twisted pair cable

KVM SETS – LCD DRAWER & KVM SWITCH							
Code ³	Number and type of port	Access via IP	Description				
K-SA-171-S801P-E	8× USB/PS21	-	up to 128 servers by 8-level cascade				
K-SA-171-S1601P-E	16× USB/PS21	-	up to 128 servers by 8-level cascade				
K-SA-171-C1601P-E	16× Cat 5 ²	-	up to 256 servers by 8-level cascade				
K-SA-171-C3201P-E	32× Cat 5 ²	-	up to 256 servers by 8-level cascade				
K-SA-171-CIP3201P-E	32× Cat 5 ²	yes	up to 256 servers by 8-level cascade				

¹ Includes 8 KVM cables (additional cables to be ordered separately)

LCD HOLDERS



DESCRIPTION:

- PS/2 or USB input into the LCD holder (according to the cabling terminal type)
- · All LCD drawers include a standard English keyboard; other layouts available on request
- Optional language setting (USA, GBR, JPN, DEU, FRA, ITA, RUS, ESP, CHN, KOR, DNK, CHE, NOR and European localization)
- Equipped with a touchpad (with trackball option)
- Multilingual "on-screen" menu
- · Sliding bars with fixed position to prevent movement during typing
- Easy connection to KVM console
- Standard power supply 230 V; 12, 24 and 48 V options available

LCD DRAWERS ONLY										
Code	H (in U)	LCD size	Dimensions (mm)		Dimensions including packing (mm)		Weight (kg)			
			w	D	н	W	D	н	Nett	Gross
K-SA-171	1	17"	442	650	44	589	856	168	16	22
K-SA-191	1	19"	442	650	44	589	856	168	17	23
K-LKD-171	1	17"	442	650	44	589	856	168	15	21

LCD holders can be combined with individual KVM consoles from the Conteg portfolio. Please don't hesitate to contact us if unable to locate the LCD holder or KVM console you desire. Special consoles and holders not included in standard offer.

² USB, PS/2 dongles or Cat. 5 cords required for use (to be ordered separately)

³ KVM set contains LCD type K-SA-171; can be replaced with any other LCD solution from LCD DRAWERS ONLY table

LOCAL EXTINGUISHING SYSTEM (LES-RACK)



Information is critically important to us all, therefore data security is paramount. One of the most dangerous threats to our data systems is fire. The LES-RACK ensures that any fires occurring within the rack are dealt with quickly and effectively.

Code	Description
LES-RACK-M	Fire detection, control, evaluation, communication and fire-extinguishing unit
LES-RACK-S	Detection, communication and fire-extinguishing unit

- LES-RACK is a self-contained, fully automatic fire detection and protection system (designed for direct installation into 19" racks with IP30 or higher) offering an efficient, effective solution for servers, telecommunication and control racks/cabinets. The LES-RACK-M unit comes with a fully equipped fire detection, control, evaluation, communication and extinguishing system. Larger-sized server racks and adjacent cabinet units may be protected with additional auxiliary LES-RACK-S units including fire detection, communication and extinguishing systems.
- LES-RACK employs clean gas, flooding the protected space until the fire is completely extinguished. The unit is comprised of metal cylinders filled with agent HFC-236fa Hexafluoropropane, in accordance with TUPO (the Technical Institute of Fire Protection, Authorization Body 221), and pressured by propelling gas.
- Each LES-RACK system is equipped with optical fire detectors, which in order to eliminate false alarms – are interconnected in double-loop dependency and connected to an evaluation and control unit. This integrated control unit indicates the system's current status, controlling and evaluating the extinguishing unit. The LES RACK-M system allows communication with the building's fire alarm control panel (FACP), reporting the status – pre-alarm, alarm and extinguishing - as the process unfolds.

LES-RACK parameter	Value	LES-RACK parameter	Value	
Unit width	483 mm / 19"	Electrical input power	max. 40 VA	
Unit height	105 mm / 2.5U	Protection rating	IP30	
Unit base depth	382 mm	Shielding class (non-interference)	RO2	
Total depth of detection extension, according to depth of protected equipment	Max. 750 mm	Supply voltage of main source	230 V ± 15 %	
System weight	15.5 kg ± 3 %	Supply frequency of main source	50 Hz	
Weight of extinguishing agent	2 kg	Maximum current supplied by main source	1.25 A	
Classification of environmental conditions (according to EN 60721-3-3)	3 k5	Standby current	210 mA	
Environment class	Α	Current consumption during pre-alarm	300 mA	
Operating temperature range	-5 °C to 50 °C	Current consumption during alarm	2 A	
Relative air humidity	95 % non-condensing	Max. current consumed by outputs in standby	40 mA	
Atmospheric pressure	70 to 106 kPa	Max. current consumed by outputs during alarm	0.5 A	
Operating position	Horizontal – uppermost position	Max. output voltage on terminal X32 (batt. recharge)	13.7 V	
Operation	Permanent	Max. current from terminal X32 (batt. recharge)	200 mA	
Operating pressure at 20° C	10 bar	Backup power source (150×94×65 mm)	12 V / 7.2 Ah	
Maximum operating pressure	um operating pressure 16 bar		1.5 m ²	
Shielding (according to ČSN EN 55022)	Class-B device	Maximum volume of protected cabinet (closed)	3 m ²	

INTELLIGENT & BASIC POWER DISTRIBUTION UNITS



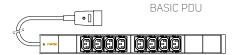
MONITORED PDU

The Conteg Intelligent & Basic Power product range comprises three different technologies to address the needs of high-density computing users.

MAIN ADVANTAGES

- Remotely monitors current draw per strip, using Ethernet and IP (Monitored range)
- Fully manages power strips and groups of power strips across the network (Managed range)
- Offers a combination of outlets, including national outlet styles combined with industrial outlets, high-amperage inputs, and both 1- and 3-phase powered models

BASIC POWER



- Designed for standard applications without standard safety or operational requirements (see above). Provide reliable power to cabinet for standard environments.
- Types:
- a) 19" mounting
- b) 10" mounting
- c) Free-standing
- d) Vertical mounting (OU)
- Outlet types: UTE, SCHUKO, UK, IEC320 C13, IEC320 C19
- Other outlet types (in combination with surge protection and ammeter) also available
- Power output:
- SCHUKO, UTE, IEC320 C19: 16 A, 250 V
- UK: 13 A, 250 V
- IEC320 C13: 10 A, 250 V
- Power input:
- All types, with 3 m power cord
- Plug for PDU (UK outlets)
- Schuko/UTE plug for all other PDUs

BASIC POWER DISTRIBUTION UNITS – STANDARD ENVIRONMENT							
Code	Mounting	H (in U)	Outlet type	Qty	Over voltage protection	Switch	
DP-RP-02-UK	10"	1	UK	2	_	-	
DP-RP-03-UTE	10"	1	UTE	3	-	-	
DP-RP-03-SCHU	10"	1	SCHUKO	3	-	-	
DP-RP-06-UTESP*	19"	2	UTE	6	yes	yes	
DP-RP-06-SCHUSP*	19"	2	SCHUKO	6	yes	yes	
DP-RP-06-UTESP-F	Free	-	UTE	6	yes	yes	
DP-RP-06-SCHUSP-F	Free	-	SCHUKO	6	yes	yes	
DP-RP-06-UKS	19"	1	UK	6	-	yes	
DP-RP-07-UK	19"	1	UK	7	-	-	
DP-RP-08-UTES	19"	1	UTE	8	-	yes	
DP-RP-08-SCHUS	19"	1	SCHUKO	8	-	yes	
DP-RP-09-UTE	19"	1	UTE	9	-	-	
DP-RP-09-SCHU	19"	1	SCHUKO	9	-	-	
DP-RP-09-IECC19	19"	1	IEC320 C19	9	-	-	
DP-RP-12-IECC13	19"	1	IEC320 C13	12	-	-	
DP-RP-20-IECC19	Vertical	-	IEC320 C19	20	-	-	
DP-RP-20-IECC13	Vertical	-	IEC320 C13	20	-	-	
DP-RP-20-SCHUV	Vertical	-	SCHUKO	20	-	-	
DP-RP-20-UTEV	Vertical	-	UTE	20	-	-	

^{*} Panels may contain HF filter (models DP-RP-06-UTEPH, DP-RP-06- SCHUPH)



Basic Power Distribution Units are designed for high-density, mission-critical server applications. These models provide reliable power to the cabinet for both standard and blade server environments.

	BASIC POWER DISTRIBUTION UNITS – STANDARD AND BLADE SERVER ENVIRONMENTS										
Code	Input plug	Length	Type 1	Oty type 1	Туре 2	Qty type 2	Rating (A)		Dimensions (mm)		
Code	mpat plag	(m)	outlet	outlet	outlet	outlet		Mounting	н	W	D
IP-BA-308UK8C916	EN 60309	3	UK	8	C19	8	16	OU	860	44	44
IP-BA-312UK8C316	EN 60309	3	UK	12	C13	8	16	OU	985	44	44
IP-BA-308SH8C916	EN 60309	3	SCHUKO	8	C19	8	16	OU	722	44	44
IP-BA-312SH8C316	EN 60309	3	SCHUKO	12	C13	8	16	OU	777	44	44
IP-BA-308UT8C916	EN 60309	3	UTE	8	C19	8	16	OU	780	44	44
IP-BA-312UT8C316	EN 60309	3	UTE	12	C13	8	16	OU	865	44	44
IP-BA-320C34C916	EN 60309	3	C13	20	C19	4	16	OU	908	44	44
IP-BA-C20C34C916	C20	3	C13	20	C19	4	16	OU	908	44	44
IP-BA-C08C300010	C14	3	C13	8	None	0	10	1U	439	44	44
IP-BA-C08C300016	C20	3	C13	8	None	0	16	1U	439	44	44
IP-BA-320C34C932	EN 60309	3	C13	20	C19	4	32	OU	1038	44	44
IP-BA-306C900011	EN 60309	3	C19*	6	None	0	3×16	1U	439	44	44
IP-BA-306SH00011	EN 60309	3	SCHUKO	6	None	0	3×16	1U	439	44	44
IP-BA-306UT00011	EN 60309	3	UTE	6	None	0	3×16	1U	439	44	44
IP-BA-306C900022	EN 60309	3	C19*	6	None	0	3×32	1U	439	44	145
IP-BA-318C36C911	EN 60309	3	C13	18	C19	6	3×16	OU	996	44	44
IP-BA-324C36C922	EN 60309	3	C13	24	C19	6	3×32	OU	1673	44	44

^{*} C19 sockets with lock mechanism (IEC lock)

INTELLIGENT POWER - MONITORED

- Feature an easy-to-read local ammeter (on the outlet strip), along with the ability to monitor the current draw of outlets remotely over an Ethernet connection. Users can access information from thousands of intelligent Power Distribution Units (PDU) in one location. Designed for high-
- density, mission-critical server applications, Conteg Monitored PDUs provide reliable power to the cabinet for both standard and blade server environments.
- Enhanced version offers voltage and frequency metering, enabling reportage of power factor,

active and apparent power and main energy consumed (in kWh). Also calculates carbon emission data (CO₂ footprint) and consumed energy price estimates.



MONITORED PDU

	INTELLIGENT POWER DISTRIBUTION UNITS – MONITORED										
Code	la sut alua	Length	Type 1	Qty type 1	Туре 2	Oty type 2	2 Rating (A)	Maustina	Dimensions (mm)		
Code	Input plug	(m)	outlet	outlet	outlet	outlet		Mounting	н	W	D
IP-DMI-008C300016	C20	X ¹	C13	8	X	X	16	1U	432	44	90
IP-DMI-021C33C916	C20	X ¹	C13	21	C19	3	16	OU	645	44	56
IP-DMI-314C32C932	EN 60309	3	C13	14	C19	2	32	OU	1245	44	56
IP-DMI-321C33C932	EN 60309	3	C13	21	C19	3	32	OU	1645	44	56
IP-DMI-321C33C911	EN 60309	3	C13	21	C19	3	3×16	OU	1778	44	56
IP-DMI-318C36C922	EN 60309	3	C13	18	C19	6	3×32	OU	1778	44	56
INTELLIGENT POWER DISTRIBUTION UNITS - ENHANCED MONITORED (kWh)											
IP-DEI-008C300016	C20	X ¹	C13	8	х	X	16	1U	432	44	90
IP-DEI-321C33C932	EN 60309	3	C13	21	C19	3	32	OU	1645	44	56

¹INPUT power cords must be ordered separately (see table on page 109)

INTELLIGENT POWER - MANAGED



- The leading edge in functionality available in a PDU. Employing a server-grade microprocessor, this product has unprecedented management and monitoring capabilities (available through the built in web-server and firewall).
- Individual on/off outlets enable remote reboot of servers
- Virtual grouping of outlets for single-click reboot of multi-corded servers
- Single-click control of entire racks or non-critical

- Current monitoring per outlet (POM)
- User-definable sequencing of outlets for reboot
- Designed for high-density, mission-critical server applications, Conteg Managed PDUs provide reliable power to cabinets in both standard and blade-server environments.
- Enhanced version offers voltage and frequency metering, enabling reportage of power factor, active and apparent power and main energy consumed (in kWh). Also calculates carbon emission data (CO₂ footprint) and consumed energy price estimates.

INTELLIGENT POWER DISTRIBUTION UNITS – MANAGED (MONITORED PER OUTLET)											
Code	leout alue	Length	Type 1	Oty type 1	Type 2	Qty type 2	Rating	Maustina	D	imensions (mr	n)
Code	Input plug	Length	outlet outlet	outlet	outlet	(A)	Mounting	н	W	D	
IP-DMA-008C3POM16 ²	C20	X ¹	C13	8	х	х	16	1U	432	44	90
IP-DMA-308C9P0M32	EN 60309	3 m	C19	8	x	x	32	1U	432	44	90
INTELLIGENT POWER DISTRIBUTION UNITS – ENHANCED MONITORED (KWH)											
IP-DEA-308C9POM32	EN 60309	3 m	C19	8	Х	х	32	1U	432	44	90

¹ INPUT power cords must be ordered separately (see below)

² POM (power outlet monitored); each metered separately

	INTELLIGENT POWER DISTRIBUTION UNITS – MANAGED (MONITORED PER STRIP)										
Code	la sub alua	Length	Type 1	Qty type 1	Type 2	Qty type 1		Marratica	Dimensions (mm)		
Code	Input plug	(m)	outlet	outlet	outlet	outlet		Mounting	н	W	D
IP-DMA-008C300016	C20	x ¹	C13	8	х	х	16	1U	432	44	90
IP-DMA-021C33C916	C20	X ¹	C13	21	C19	3	16	OU	1778	44	56
IP-DMA-314C32C932	EN 60309	3	C13	14	C19	2	32	OU	1245	44	56
IP-DMA-321C33C932	EN 60309	3	C13	21	C19	3	32	OU	1778	44	56
IP-DMA-318C36C911	EN 60309	3	C13	18	C19	3	3x16	OU	1778	44	56
IP-DMA-318C36C922	EN 60309	3	C13	18	C19	3	3x32	OU	1778	44	56
INTELLIGENT POWER DISTRIBUTION UNITS – ENHANCED MANAGED (KWH)											
IP-DEA-008C300016	C20	x ¹	C13	8	х	Х	16	1U	432	44	90
IP-DEA-314C32C932	EN 60309	3	C13	14	C19	2	32	OU	1245	44	56

¹ INPUT power cords must be ordered separately

	Brackets for vertical installation of PDU						
Code	Description						
DP-RP-VM-01	Brackets for mounting vertical 19" power distribution unit to PREMIUM/OPTIMAL frame						
DP-RP-VM-02	Brackets for mounting vertical power distribution unit DP-RP-20-XX to PREMIUM/OPTIMAL frame						
DP-RP-VM-06	Swivel brackets for mounting vertical PDU DP-RP-XX and IP-XXX to PREMIUM/OPTIMAL frame, set for 1 PDU						
DP-RP-VM-07	Brackets for mounting vertical PDU IP-DXX to RSF and iSEVEN SERVER rack with A-type of extrusions, set for 1 PDU						
DP-RP-VM-08	Brackets for mounting vertical PDU IP-BA to RSF and iSEVEN SERVER rack with A-type of extrusions, set for 1 PDU						
DP-RP-VM-08-2	Brackets for mounting 2× vertical PDU IP-BA to RSF and ISEVEN SERVER rack with A-type of extrusions, set for up to 2 PDU (& for RSF rack with non-divided L-type extrusions)						

Note: All PDUs are delivered with standard installation brackets. All Basic PDUs have brackets (similar to those used for horizontal installation) that can be rotated 90° at the plastic end caps. Intelligent PDUs have either brackets (for horizontal installation) or flat plates (for vertical attachment) to 19" extrusions.



To find our latest list of products including your ideal intelligent PDU model please visit www.conteg.com or consult with your Conteg Area Sales Manager.

OUTLET AND PLUG TYPES









IEC320 C13



UK (BS 1363)





IEC320 C19

IEC320 C20

SCHUKO

SCHUKO - GERMAN





UTE - FRENCH







EN6030916A1PH







EN60309 32A 1PH





EN60309 16A 3PH

INPUT POWER CORDS FOR INTELLIGENT PDUs Code In-out type Length IP-C-C9SH25 IEC 320 C19 to Schuko (plug) 2.5 m IP-C-C93025 IEC 320 C19 to EN 60309 (1×16 A) 2.5 m IP-C-C9C225 IEC 320 C19 to IEC 320 C20 2.5 m

Note: Compatible with IP-DMI and IP-DMA

OUTPUT POWER CORDS FOR INTELLIGENT PDUs					
Code	In-out type	Length			
IP-C-C9C218	IEC 320 C19 to IEC 320 C20	1.8 m			
IP-C-C3C405	IEC 320 C13 to IEC 320 C14	0.5 m			
IP-C-C3C410	IEC 320 C13 to IEC 320 C14	1.0 m			
IP-C-C3C418	IEC 320 C13 to IEC 320 C14	1.8 m			

Note: Compatible with IP-DMI and IP-DMA

LOCKING INSERTS				
Code	Description	Package		
IP-C-FC13	Plug Lock sleeve insert for outlet C13	50 pcs		
IP-C-FC19	Plug Lock sleeve insert for outlet C19	50 pcs		
IP-C-PL20	Plug Lock sleeve insert for C20 input	50 pcs		
DP-RP-LC-C3	Locking clips for DP-RP-12-IECC13	12 pcs		

HOW TO READ CODE FOR INTELLIGENT POWER UNITS



An example of a correct Code:

IΡ **DMI** 3 21 **C3** 3 **C9** 11

1. POW	1. POWER STRIP TECHNOLOGY					
Code	Options					
BA	Basic					
DMI	Monitored (over IP)					
DMA	Managed					
DEI	Enhanced Monitored					
DEA	Enhanced Managed					

2. INPUT PLUG TYPE (on the input power cord)				
Code	Options			
0	No cable, Inlet C20 only			
С	IEC C20			
3	EN 60309			

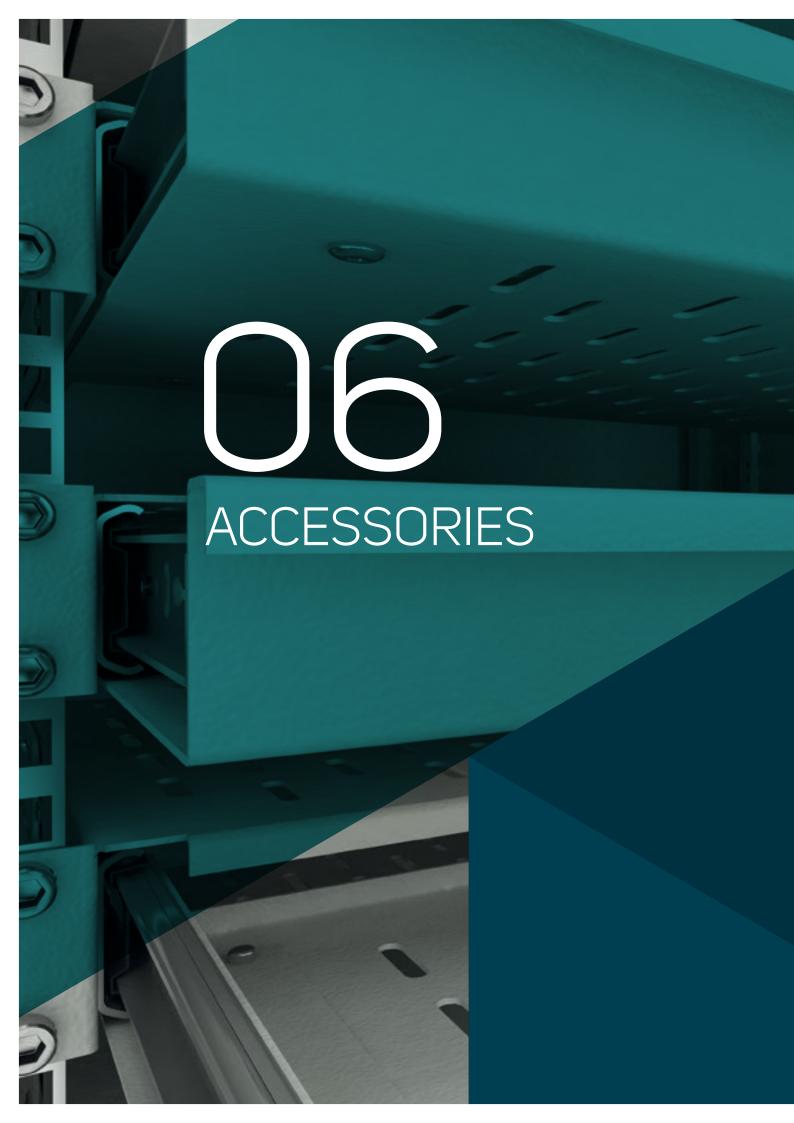
3. NUMBER OF OUTLET TYPE 1

4. TY	4. TYPE OF OUTLET TYPE 1					
Code	de Options					
UK	UK					
SH	Schuko					
UT	UTE (French)					
СЗ	C13					
С9	C19					

5. NUMBER OF OUTLET TYPE 2

6. TYPE OF OUTLET TYPE 2				
Code	Options			
С3	C13			
С9	C19			

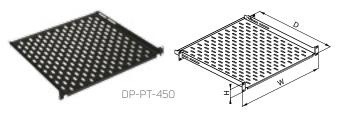
7. STRIP RATING					
Code Options					
16	16 Amps				
32	32 Amps				
11	11 kW (3×16 A)				
22	22 kW (3×32 A)				





SHELVING

19" FIXED LITE SHELVES SERIES DP-PT

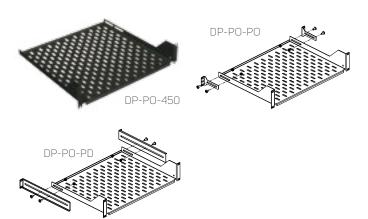


- 1.5 mm sheet steel
- Supporting brackets included
- Color: powder-coated RAL 9005
- Load rating max. 20 kg balanced load; maximum load rating decreased to 25% when mounted on front pair of vertical extrusions only (shelf depth 150, 250, and 350 mm)
- Longer supporting bracket DP-PO-PD available for use
- Package includes: 1× shelf, 2× rear brackets

Code	w	D (mm)	H (in U)	Min-max dist. ¹	Max. dist.²	Package
DP-PT-150	19"	150	1	75-121	370	1 pc
DP-PT-250	19"	250	1	125-221	470	1 pc
DP-PT-350	19"	350	1	175-321	570	1 pc
DP-PT-450	19"	450	1	225-421	670	1 pc
DP-PT-550	19"	550	1	275-521	770	1 pc
DP-PT-650	19"	650	1	325-621	870	1 pc
DP-PT-750	19"	750	1	375-721	970	1 pc
DP-PT-850	19"	850	1	425-821	1070	1pc

- ¹ Between standard front and rear brackets (in mm)
- ² Between front and rear brackets with DP-PO-PD (in mm)

19" FIXED SHELVES SERIES DP-PO



- 2 mm sheet steel
- Support brackets optional
- Color: powder-coated RAL 9005
- Load rating max. 60 kg balanced load (when supporting brackets used ordered separately); load rating decreased to 25% when mounted on front pair of vertical extrusions only – shelf depth 150, 250 and 350 mm
- Package includes:
- DP-PO-xxx: 1× shelf
- DP-PO-Px: 2× supporting brackets

Code	H (in U)	w	D (mm)	Min-max dist.¹	Max. dist.²	Package
DP-PO-150	1	19"	150	75-180	385	1 pc
DP-P0-250	1	19"	250	125-265	470	1 pc
DP-PO-350	2	19"	350	230-380	585	1 pc
DP-P0-450	2	19"	450	260-480	685	1 pc
DP-PO-550	2	19"	550	360-580	785	1 pc
DP-P0-650	2	19"	650	460-680	885	1 pc
DP-PO-750	2	19"	750	560-780	985	1 pc
DP-P0-850	2	19"	850	660-880	1085	1 pc

- ¹ Between standard front and rear brackets (in mm)
- ² Between front and rear brackets with DP-PO-PD (in mm)

SUPPORTING BRACKETS					
Code	Туре	Packing	Length (mm)	H (in U)	
DP-PO-PO	Standard	1 pair	88	1	
DP-PO-PD*	Extended	1 pair	298	1	

^{*} Compatible with DP-PO-xxx, DP-PT-xxx

19" FIXED HIGH-LOAD SHELVES SERIES DP-PZ



- 2 mm sheet steel, reinforced with metal bars
- Four supporting brackets (for mounting on vertical extrusions) included
- Color: powder-coated RAL 9005
- Load rating max. 100 kg balanced load
- Package includes: 1× shelf, 4× brackets, 16× screws M6, 16× nuts M6

Code	H (in U)	w	D (mm)	Min-max distance ¹	Package
DP-PZ-450	1	19"	450	113-463	1 pc
DP-PZ-550	1	19"	550	213-563	1 рс
DP-PZ-650	1	19"	650	313-663	1 рс
DP-PZ-750	1	19"	750	413-763	1 pc
DP-PZ-850	1	19"	850	513-863	1 рс

¹Between standard front and rear brackets (in mm)

19" PULL-OUT SHELVES SERIES DP-PO-V

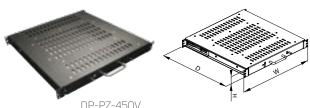


- 1.5 mm sheet steel
- Height: 1U
- Equipped with one pair of side telescopic rails
- Supporting brackets included
- Color: powder-coated RAL 9005
- Load rating max. 25 kg balanced load; maximum load rating decreased to 25% when mounted on front pair of vertical extrusions only (shelf depth: 250 and 350 mm)
- Package includes: 1× shelf, 2× rear brackets, 4× screws M5

Code	H (in U)	w	D (mm)	Min-max dist.1	Drawout part max.	Package
DP-P0-250V	1	19"	271	155-370	160 mm	1 pc
DP-PO-350V	1	19"	371	255-470	260 mm	1 pc
DP-P0-450V	1	19"	471	355-570	325 mm	1 pc
DP-P0-550V	1	19"	571	455-670	410 mm	1 pc
DP-P0-650V	1	19"	671	555-770	485 mm	1 pc
DP-P0-750V	1	19"	771	655-870	520 mm	1 pc

¹Between standard front and rear brackets (in mm)

19" PULL-OUT HIGH LOAD SHELVES SERIES DP-PZ-V

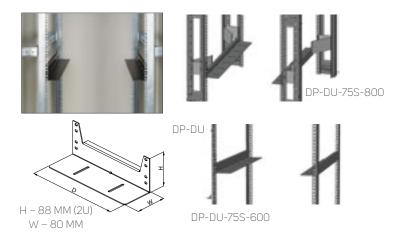


- 2 mm and 2.5 mm sheet steel
- Height: 1U
- Max. pull-out 450 mm
- Color: powder-coated RAL 9005
- Load rating max. 80 kg balanced load
- Package includes: 1× shelf

Code	H (in U)	w	D (mm)	Min-max distance ¹	Package
DP-PZ-450V	1	19"	471	296-507	1 рс
DP-PZ-550V	1	19"	571	406-607	1 pc

¹ Between standard front and rear brackets (in mm)

SUPPORTING RAILS



- 2 mm sheet steel
- Mountable on vertical extrusion side holes (with DP-MO-01 mountain kit, not included)
- Color: powder-coated RAL 9005
- Space between rails provides effective cooling of active devices
- Load rating max. 50 kg balanced load
- Package includes:
- DP-DU-xxxx: 2× supporting rails
- DP-DU-S75: $2\times$ supporting rails, $4\times$ brackets for 800 mm racks, $36\times$ screws M5, 16× floating nuts M5
- Compatible with L-Type extrusions; other information upon request

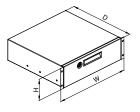
Rack	Max. DP-DU
RDF 80/80	700
RDF 80/100	900
RSF 60/80	700
RSF 60/100	900
RSF 80/80	700
RSF 80/100	900
Rx7 60/60	500
Rx7 60/80	700
Rx7 60/100	900
Rx7 80/80	700
Rx7 80/100	900

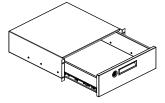
Replace x with i or M

	SUPPORTING RAILS		
Code	Distance between front and rear vertical L-type extrusions (mm)	Depth (mm)	Package
DP-DU-300	296	242	1 pair
DP-DU-400	396	342	1 pair
DP-DU-500	496	442	1 pair
DP-DU-600	596	542	1 pair
DP-DU-700	696	642	1 pair
DP-DU-800	796	742	1 pair
DP-DU-900	896	842	1 pair
DP-DU-1000	996	942	1 pair
DP-DU-S75 *	740	692	1 pair

^{*} Load rating of 100 kg for 600 and 800 mm width

19" PULL-OUT DRAWER DP-DD



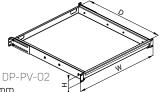


- 1.25 and 1.5 mm sheet steel
- Height: 3U
- Max. pull-out distance 280 mm
- Color: powder-coated RAL 9005
- Load rating max. 10 kg balanced load
- Package includes: 1× drawer

Code	H (in U)	w	D (mm)	Package
DP-DD-03	3	19"	430	1 рс

19" PULL-OUT KEYBOARD HOLDER SERIES DP-PV



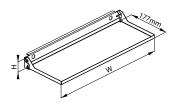


- 1.5 mm sheet steel
- Max. keyboard width 400 mm and height 36 mm
- Shelf depth: 480 mm
- Max. pull-out distance 330 mm
- Color: powder-coated RAL 9005
- Supporting brackets included
- Supporting brackets DP-PV-PD for installation into 800 and 1000 mm deep racks (optional)
- Package includes: 1x keyboard holder, 2x rear brackets, 4x screws M5, 1x self-adhesive velcro tape

Code	H (in U)	W	D (mm)	Package
DP-PV-02	1	19"	480	1 pc

19" FOLDING KEYBOARD HOLDER SERIES DP-PV

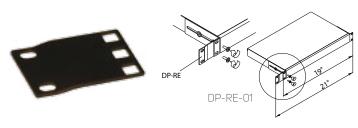




- Enables keyboard placement in front of sliding vertical extrusions
- Max. keyboard size 480×175 mm
- Color: powder-coated RAL 9005
- Height: 1L
- Fix keyboard to shelf using self-adhesive velcro 8 pcs of size 12×25 mm (included)
- Package includes: 1× keyboard holder, 1× self-adhesive velcro tape

Code	H (in U)	W	Package
DP-PV-01	1	19"	1 рс

21" ADAPTORS

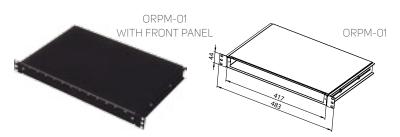


- Allows for use of 19" equipment in 21" rack
- Color: powder-coated RAL 9005
- Package includes: 1× adaptor

Code	H (in U)	Package
DP-RE-01	1	1 рс
DP-RE-02	2	1 рс
DP-RE-03	3	1 pc

FIBER-OPTIC PRODUCTS

19" FIXED FIBER-OPTIC SPLICE BOX



Code	H (in U)	W	D (mm)	Description	Package
ORPM-01	1	19"	300	Fixed	1 pc

- Type: fixed
- Height: 1U
- Modular front panels not included (see below)
- Up to 24 positions for FO couplings
- Front panel must be selected and ordered separately
- Cable entry openings in rear

- Holes not in use can be covered with blank
- Installed in racks with adjustable holders
- Installation kit for splice cassettes and inner organizer (included)
- Wide range of accessories (optional)
- Color: powder-coated RAL 9005

- Package includes:
 - ORPM-01: 1× fibre-optic box, 2× cable holders, 2×19" brackets, 4× screws M5, 2× screws M4
- OR-xxxxx: 1× front panel





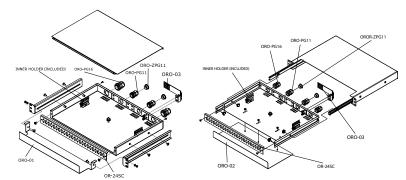








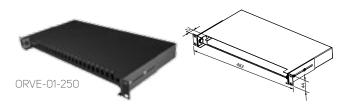
ACCESSORIES FOR FIBER-OPTIC SPLICE BOXES				
Code	Description	Package		
ORO-K2000	Splice cassette	1pc		
ORO-PG11	PG11 coupling	10 pcs		
ORO-PG16	PG16 coupling	10 pcs		
ORO-ZPG11	Cover of opening for PG11 coupling	10 pcs		
ORO-ZPG16	Cover of opening for PG16 coupling	10 pcs		
ORO-01	Front organizer for ORPM	1pc		
ORO-02	Front organizer for ORVM	1 pc		
ORO-03	Rear organizer	1 pc		



TYPES OF MODULAR FRONT PANELS							
Code	Number of holes for FO couplings						
Code	8	12	16	24	Package		
OR-xxST	yes	yes	yes	yes	1рс		
OR-xxSC	yes	yes	yes	yes	1pc		
OR-xxDSC	yes	yes	yes	yes*	1рс		
OR-xxFC	yes	yes	yes	yes	1рс		
OR-xxFCD	yes	yes	yes	yes	1 pc		

^{*} Without numbering and holes for screws

19" TELESCOPIC FIBER-OPTIC SPLICE BOXES

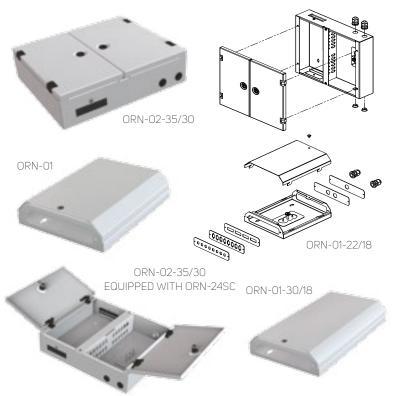


Code	H (in U)	W	D (mm)	Description	Package
ORVM-01	1	19"	320	Telescopic	1pc
ORVE-01-250	1	19"	250	Telescopic	1 pc

- Used to terminate optical cables in racks
- Type: telescopic
- Height: 1U
- Modular front panels not included see table on page 115
- Up to 128 positions for FO couplings
- Front panel must be selected and ordered separately
- · Cable entry openings in rear
- Holes not in use can be covered with blank
- Installs into racks with two sliding holders
- Installation kit for splice cassettes and inner organizer included (ORVM-01 only)
- Wide range of accessories (optional)
- Color: powder-coated RAL 9005

- · Package includes:
- ORVM-01: 1× fibre-optic box, 2× cable holders, 2× screws M4
- ORVE-01-250: 1× fibre-optic box, 2×19" brackets, 6× screws M4

WALL-MOUNTING FIBER-OPTIC SPLICE BOXES

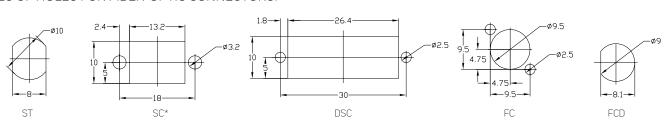


Code	Туре	W x H (mm)	Package
ORN-01-30/18	Single	300×180	1 pc
ORN-01-22/18	Single	220×180	1 рс
ORN-02-35/30	Double	350×300	1 pc

PANELS FOR WALL-MOUNTING FIBER-OPTIC SPLICE BOXES					
ORN-01-30/18 and ORN-01-22/18	ORN-02-35/30	Package			
ORN-M-8ST	ORN-24ST	1 рс			
ORN-M-8SC	ORN-24SC	1рс			
ORN-M-4DSC	ORN-12DSC	1 pc			
ORN-M-1PG	ORN-24FC	1 рс			
ORN-M-2PG	ORN-12FCD	1 pc			
ORN-M-8FC	-	1 pc			
ORN-M-4FCD	-	1рс			

- · Wall-mounting fiber-optic splice boxes (used to terminate optical cables)
- Types:
- a) double size 350×300 mm; equipped with double-leaf door and lock
- b) single size 300×180 mm or 220×180 mm
- Modular panels with holes for couplings see table below (must be ordered separately)
- In double FO splice-box up to 24 positions for ST or SC or FC or 12 DSC or FCD adapters
- In single FO splice-box up to 8 positions for ST or SC or FC or 4 DSC or FCD adapters
- Holes not in use can be covered with blank modules
- Cable entry through PG couplings (PG 9 for ORN-01 and PG 11 for ORN-02)
- Installation kit for splice cassette (ORO-K2000) included
- Color: powder-coated RAL 7035
- Package includes:
- ORN-01-xx/xx: 1× WM box (box with cover), 1× screw M4, 4× screws M3, 1× nut M5
- ORN-02-xx/xx: 1× WM box (box with 2 doors), 2× PG11 with nuts, 2× Cover of opening for PG, 2× screws M4, 1× nut M5
- ORN-M-xxxx, ORN-xxxxx: 1× panel

TYPES OF HOLES FOR FIBER-OPTIC CONNECTORS:



^{*} Used also for DUAL-LC (adapter needed)

Note: Dimensions in mm (before powder coating)

PATCH PANELS

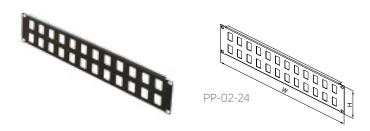
19" PANELS FOR 110 CONNECTING BLOCKS



- For installation of 110 connecting blocks in 19" racks
- Available in 2U and 4U
- Color: powder-coated RAL 9005
- Can install up to 100 pairs for 2U height (incl. wire management)
- Package includes panels for 100 blocks

Code	н		For	Package
Code	(in U)	110 block	Cable man. panel	Package
DP-ZA-2U-110	2	1 pc	1 pc	5 pcs
DP-ZA-4U-110	4	2 pcs	2 pcs	5 pcs

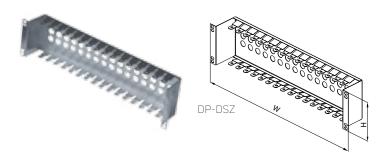
19" PATCH PANELS FOR KEYSTONE MODULES



- For installation of Keystone rack modules
- Available in heights of 1U, 2U and 3U
- Can install up to 16 Keystone modules for 1U height (hole size 16.7×24.3 mm)
- Color: powder-coated RAL 9005
- Each module requires DP-KEY adaptor
- Package includes: 1× panel for Keystones

Code	H (in U)	Width	No. of positions	Package
PP-01-16	1	19"	16	1 pc
PP-02-24	2	19"	24	1 pc
PP-02-32	2	19"	32	1 pc
PP-03-48	3	19"	48	1рс

19" PATCH PANELS FOR LSA-PLUS MODULES



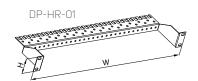
- For installation of LSA-PLUS modules (96 mm spacing)
- 16 positions for 10 pairs of LSA-PLUS modules
- Zinc-plated finish
- Package includes: 1x panel for LSA-PLUS modules

Code	H (in U)	Width	No. of positions	Package
DP-DSZ	2.5	19"	16	1 pc

EARTHING BARS

CABLE CLAMP BRACKET / EARTHING BAR FOR PATCH PANEL





.....

DP-HR-03

- For earthing installed equipment
- Height: 1U and 2U
- Holds cables with cable ties or PVC
- Suitable for use as earthing bar
- Zinc-plated finish
- Package includes:
- DP-HR-01, DP-HR-02: 1× earthing bar
- DP-HR-03: 5× earthing bar, 5× mounting kit DP-MO-01

Code	Description	Package
DP-HR-01	19" cable clamp bracket / earthing bar for patch panel, 1U	1 рс
DP-HR-02	19" cable clamp bracket / earthing bar for patch panel, 2U	1 рс
DP-HR-03	19" cable clamp bracket / earthing bar	1 set

19" PANEL WITH EARTHING BAR



- Height: 1U
- Copper earthing rail with 5 earthing clips (DP-ZE-CL) included
- Color: powder-coated RAL 9005
- Package includes:
- DP-ZE-RAM: 1× earthing rail, 5× clips DP-ZM-CL
- DP-ZE-CL: 1× earthing clip

Code	Description	Package
DP-ZE-RAM	19" panel with earthing rail and 5 clips	1 pc
DP-ZE-CL	Earthing clip	1 pc

EARTHING BAR



DP-ZE-CL



- For rack sizes 15-48U
- 25×5 mm copper bar
- Installation kit for rack mounting (included)
- \bullet Package includes: 1× earthing bar, 5× clips DP-ZM-CL, 4× screws M5, 4× nuts M5

Code	H (in U)	Length (mm)	Package
DP-UL-15U	15	667	1 рс
DP-UL-21U	21	933	1 pc
DP-UL-27U	27	1200	1 рс
DP-UL-33U	33	1467	1 рс
DP-UL-42U	42	1867	1 рс
DP-UL-45U	45	2000	1 рс
DP-UL-48U	48	2134	1 рс

EARTHING RAIL



- 22 terminals for cable diameters: ø 1–10 mm² – solid conductor
- ø 1 6 mm² stranded conductor
- Nominal voltage 230/400 V
 Nominal current 40 A
- Mounting kit for installation (at either frame or extrusions)
- Ground cable 6 mm² with M8 lug, length 500 mm
- In accordance with standard specification LG-19
- Package includes: 1× earthing rail, 2× plasctic holders, 2× screws M5

Code	Description	Package
DP-ZE-ER24	Earthing rail, 8×8 mm, 22 terminals, 40 A, ground cable	1 рс

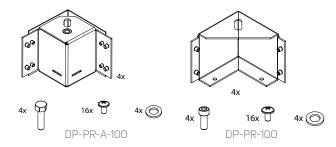
MODULAR PLINTHS





- Used with PREMIUM and iSEVEN rack series (RDF, RSF, RSB, ROP, RI7 and RM7)
- Height: 100 mm
- Color: powder-coated RAL (standard RAL 7035 or 9005)
- Delivered unassembled; assembly hardware and instructions included
- Consists of:
 - Set of corners
 - Set of side panels

SET OF PLINTH CORNERS

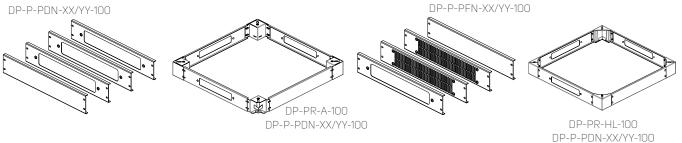


- Used for all types of free-standing racks
- Available in three types:
- a) a) DP-PR-100: fixed height 100 mm; for total load (IT equipment + rack) up to 800 kg (also applicable for racks 1 200 mm deep, with load rating up to 1000 kg)
- b) DP-PR-HL-100: fixed height 100 mm for total load (IT equipment + rack) 800 kg and more
- c) DP-PR-A-100: fixed height 100 mm, equipped with adjustable feet; for total load (IT equipment + rack) up to 1700 kg
- Package includes: 4× plinth corners, 4× screws M10, 16× screws M5

Code	Load rating (kg)*	Package
DP-PR-100	800	1 set of 4 pcs
DP-PR-A-100	1700	1 set of 4 pcs
DP-PR-HL-100	1700	1 set of 4 pcs

^{*} Load rating for set (4 pcs) of corners, incl. weight of rack

SET OF SIDE PANELS



- Available in two types:
 - a) With cable entry openings (in DP-P-PDN-xx/yy)
- b) With perforation and exchangeable filters (in DP-P-PFN-xx/yy)
- Package includes: 1× plinth panel full, 3× plinth panels with cable entry or perforations

FOLLOW THE STEPS TO SET UP THE DESIRED CODE!

PLINTH CORNERS

PR DP 100 SIDE PANELS

DP

100 DP P

An example of a correct Code:

PDN

An example of a correct Code: DP PR HL 100

1.						
Code	Code Options					
HL Plinth corners – high load						
Α	A Plinth corners with adjustable feet					
	Plinth corners					

1.				
Code	Options			
PDN	Plinth without filter			
PFN	Plinth with filter			

2.
Options
Rack width (mm) – ie. 600, 800
Rack Width (ITITH) - Ie. 600, 600

600



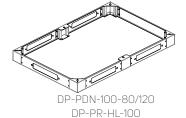
100

600

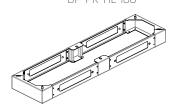
Ordering code for exchangeable filter: DP-P-PFN-FI-600 - 600 mm length DP-P-PFN-FI-800 - 800 mm length

PLINTHS FOR 1200 MM DEEP RACKS & SPACE OPTIMIZATION SECTIONS









DP-PDN-30/YYY-100

- Package Code Description Set of plinth panels for 60/120 DP-PDN-100-60/120 * 1 set (height 100 mm) Set of plinth panels for 80/120 DP-PDN-100-80/120 * 1 set (height 100 mm)
- * With DP-PR -100 (height 100 mm)

Code	Description	Package
DP-PDN-30/60-100	Plinth for space optimization section 30/60, height 100 mm	1 set
DP-PDN-30/80-100	Plinth for space optimization section 30/80, height 100 mm	1 set
DP-PDN-30/100-100	Plinth for space optimization section, 30/100, height 100 mm	1 set
DP-PDN-30/120-100	Plinth for space optimization section, 30/120, height 100 mm	1 set

- Set of plinth panels for rack footprint xx/yyy (height 100 mm)
- Package includes:
- DP-PDN-100-xx/120: 6x panels, 2x middle plinths
- DP-PDN-30/xx-100: 2x panel set, 2x plinth

MOUNTING & CONNECTING KITS

MOUNTING KIT











DP-MO-01

- Attaches equipment to vertical extrusions
- · Package includes:
- DP-MO-Ox: 1× screw, 1× floating nut, 1× washer
- DP-MO-F2: 1× screw, 1× nut
- DP-MO-100: 100× mounting kit (1× screw, 1× floating nut, 1× washer)

Code	Description	Size	Package
DP-MO-01 ¹	Mounting kit	M5	1 set
DP-MO-02 ¹	Mounting kit	M6	1 set
DP-MO-F2 ¹	Mounting kit – fast installation	M6	1 set
DP-MO-100	Mounting kit – multipack	M5	1 set

¹Please order in multiples of four only (one package = 4 sets, see above)

CONNECTING KITS







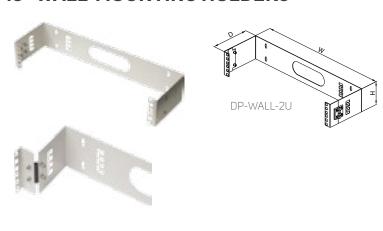
DP-DR-7

Code Package Description QUICK connecting kit for all free-standing DP-DR-UNI-Q 1 set rack series; tool-less Connecting kit for all free-standing rack DP-DR-UNI 1 set DP-DR-7 Connecting kit for rack series 1 set

- Connects (bays) free-standing racks of the same height and depth into one row; The DP-DR-UNI connects entire rack series
- DP-DR-UNI-Q: QUICK connecting (QC) kit is used to connect entire free-standing rack series; one-man installation ready, tool-less version
- DP-DR-UNI: connects entire rack series; side panels need not be removed
- DP-DR-7: connects entire rack series; side panels must be removed
- Package includes:
- DP-DR-UNI-Q: 3× QC brackets, 3× butterfly screws M5×16, 6× screws M5×16, 3× nuts
- DP-DR-UNI: 6× butterfly nuts M5, 6× screws M5×20, 12× washers
- DP-DR-7: 6× hexagonal nuts, 12× screws M5×10, 12× washers M5 DIN125

OTHERS

19" WALL-MOUNTING HOLDERS



Code	H (in U)	W	Depth (mm)	Package
DP-WALL-2U	2	19"	150	1 pc
DP-WALL-4U	4	19"	150	1 pc

- For 19" wall equipment installation
- 2U and 4U in height
- Mounting holes (for wall installation) on rear
- Holder equipped with hinges (enables equipment to swing open from wall)
- Side cable entry openings
- Color: powder-coated RAL 7035
- Package includes: 1× Wall-mounting holder

CASTORS & FEET



- Package includes:
- Set 1: 1× castor, 1× screw M10, 1× washer
- Set 2: 1× foot
- Set 3: 4× castors

Code	Description	Load rating per castor (kg)*	Package
DP-KO-01	Castor for free-standing cabinet	50 kg	1 pc of set 1
DP-KO-02	Lockable castor for free-standing cabinet	50 kg	1 pc of set 1
DP-KO-H1	High-load castor for free-standing cabinet	100 kg	1 pc of set 1
DP-KO-H2	Lockable high-load castor for free-standing cabinet	100 kg	1 pc of set 1
DP-NO-01	Adjustable foot for free-standing cabinet	-	1 pc of set 2
DP-KO-TC	Transport castors for free-standing racks	30 kg	1 pc of set 3

^{*} Castor load rating = (rack weight + device weight) / 3

LIGHTING UNITS





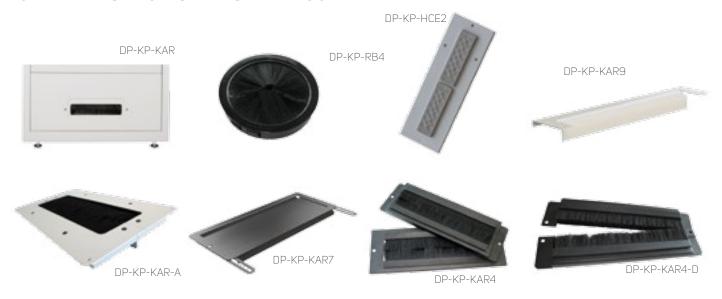


DP-0J-04

- Illuminates rack
- DP-OJ-01 and DP-OJ-05 ready for 19" installation
- DP-OJ-04 and DP-OJ-05 can be magnetically fixed into place on any sheet steel part in/on rack (OU installation)
- Automatic function ensured by motion sensor (DP-OJ-05 only)
- Package includes:
- DP-OJ-01: 1× 19" light unit, 1× power cord
- DP-OJ-04: 1× light unit (magnetic), 1× power cord
- DP-OJ-05: 1× light unit (magnetic), 1× 19" holder, 2× screws M5, 1× power cord

Code	Description	Package
DP-0J-01	Lighting unit – telescopic, 19" installation, florescent tube 230 V/50 Hz with switch	1 рс
DP-0J-04	Lighting unit, 5 W, LED technology, magnets for easy fixing	1 pc
DP-0J-05	Lighting unit, 11 W, motion sensor, magnets for easy fixing or 19" installation	1 рс

CABLE PROTECTION IN OPENINGS



- Protective strips and brush panels help protect cable entries, limiting dust penetration
- Installed in cable entry openings (300×100 mm or 300×50 mm)
- Mounting holes (for wall installation) on rear

0.1		Availabl		
Code	Description	RAL 7035	RAL 9005	Package
DP-KP-LEM	Protective edging of cable entries (length 790 mm)	-	yes	1рс
DP-KP-HCE2	Hermetic cable entry for rack with IP54 (opening 300×100 mm)	yes	yes	1 pc
DP-KP-KAR	Cable entry covered with brush for iSEVEN and Premium series (opening 300×100 mm)	yes	yes	1 pc
DP-KP-KAR3	Cable entry 150×56 mm covered with brush for RUN, RUD, REN series	yes	-	1 pc
DP-KP-KAR4	Cable entry, two layers of brushes (opening 300x100 mm)		yes	1 pc
DP-KP-KAR4-D	Cable entry, two layers of brushes, divided version (opening 300×100 mm)		yes	1 pc
DP-KP-KAR5	Cable entry 300×50 mm, covered with brush		yes	1 pc
DP-KP-KAR6	Dust-proof brush for cable entry 500x110 mm (for RI7/RM7), two pieces of brushes and two pieces of rubber for edges of cable entry	-	yes	1рс
DP-KP-KAR7	Slidable cover for cable entry 300×100 mm	yes	yes	1 pc
DP-KP-KAR9	Cable entry with radius cable protection, for 300×100 mm opening	yes	yes	1 pc
DP-KP-RB4	Cable entry diameter 100 mm (4"), covered with brush	-	yes	1 pc
DP-KP-RP4	Cable entry diameter 100 mm (4"), plastic	-	yes	1 рс
DP-KP-KAR-A	Cable entry for raised floor tiles, two layers of brushes (opening 410×215 mm)	yes	yes	1 pc





SERVICES

When preparing a complex network project, your consultants, designers and IT department can benefit from the advice and support of our engineers. Our product managers and pre-sales team have in-depth knowledge about the parameters and characteristics of all Conteg product portfolio items, along with technical certificates (Certified Data Center Design Professional, etc.) and years of experience in successfully delivering complex projects. Conteg has an engineered solution to fully meet your requirements, no matter how challenging (or simple) your project may be. Conteg offers services such as pre-assembly of accessories, assembly assistance, cooling unit start-up, training, webinars and personal presentations about our products, along with solutions for both business partners and customers. For more details and pricing information, please contact our Total Solutions Technical Support team or your Area Sales Managers. You can find a list of our services below.

SERVICES	Consulting for Data Center Solutions	Factory Pre-Assembling	Conteg Assembly Assistance	Start-up Service	On-site Product Installation
Data room layout	yes	-	-	-	-
Positioning/arrangement of individual components	yes	-	-	-	-
Energy studies and cooling system projects	yes	-	-	-	-
Project optimization	yes	-	-	-	-
CFD modeling	yes	-	-	-	-
Project documentation check and verification	-	yes	yes	-	yes
Factory installation of accessories	-	yes	-	-	-
Pre-shipment inspection	-	yes	yes	-	yes
Site-readiness check (before installation) and process coordination (during installation)	-	-	-	-	yes
Delivery to site, unpacking, positioning of products	-	-	-	-	yes
Installation of products	-	-	-	-	yes
Final inspection	-	-	yes	-	yes
Commissioning of cooling units	-	-	-	yes	-
User training	-	-	yes	yes	yes
Handover of finished project	-	-	yes	yes	yes



SERVICES

TEST CENTER FOR DATA CENTERS (TC4DC)

Conteg's TestCenter (in Pelhrimov, Czech Republic) was built for testing the impact of new and existing products on data center power consumption, efficiency, reliability and effectiveness in different configurations. Computer simulations and laboratory measurements allow specialists to verify the principles of various server room processes in order to implement innovative solutions.



WHAT CAN BE MEASURED?

- Humiditu
- > Temperature (water, air and surface of all equipment and racks)
- > Air- and water-flow
- Speed of various media in pipes and ducts
- Pressure differences (in individual parts of experimental arrangements)
- > CO₂ concentration
- Electrical parameters (voltage, current and power consumption)
- Noise parameters
- Rotation (fan or compressor speed)

DESCRIPTION:

• Total area: 156 square meters

Consists

• Experimental data center (designed as an actual data center) with raised floor and

suspended ceiling for simulating actual situations

- possibility of installing individual racks, rows, contained aisles and closed-loops
- Rooms for technical support
 - spaces for hardware and software

Ancillary spaces

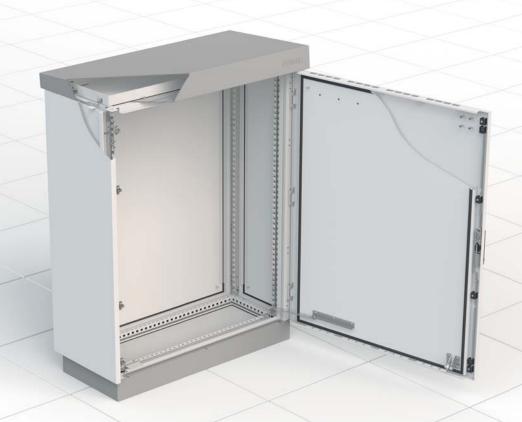
- Workshop area for hardware (used in testing) and software (used to examine results)
- Conference room (for team meetings and technical presentations)

Index

40.001100	05	DD 070		001.1.004000.1/1	07
AC-COND2	85	DP-STS	93	OPW-3016RD-YL	67
ACP-IW	54	DP-S01-VENT	57	OPW-RRB	65, 70
ACP-OW	55	DP-UL	118	OPW-SDMB	68-69
AC-PUHZ AC-TCW	83-84	DP-01-VENT	92 88	OPW-SRB	70 65 70 73
AC-TDS	82 83	DP-VEC DP-VEL	89	OPW-TR-16/xx OPW-TRB-16	65, 70, 73 70
AC-TDX	83	DP-VEL	88-89	OPW-TRB-30	65, 70
AC-TOP2-CW	87	DP-VEN-01	89	OPW-TRB-30 OPW-TR-BR	65, 70, 73
AC-TOP2-CW AC-TOP3-CW	87	DP-VEN-OT	88	OPW-TR-CM	73
AC-TXC	85	DP-VE-ROV2	89	OR OR	115
AEGIS	103	DP-VE-ROV4	89	ORMS-01	57
CO-BU	21	DP-VE-01	89	ORN	116
CONTAINED AISLE	90	DP-VP-K	<i>7</i> 5	ORN-M	116
CO-TU	22	DP-VP-M	75	ORN-01	116
CPW-20CA	72	DP-VP-P	74	ORN-02	116
CPW-20CAC-3U	72	DP-VP-PS01	57	ORO	115
CPW-20CAC-0U	72	DP-VP-VR	76	ORPM-01	115
CPW-20-CC	72	DP-VV-xxU/150	77	ORS	57
CPW-20CC-SM	72	DP-VV-A	76	ORVE-01	116
CPW-20CD	72	DP-WALL	122	ORVM-01	116
CPW-20CDC	72	DP-ZA	90	PP	117
CPW-20-EC	72	DP-ZA-2U-110	117	RAMOS	96-101
CPW-20-R	72	DP-ZA-4U-110	117	RAMOS Mini	96, 98-99
CPW-20TAC-3U	72	DP-ZA-S1U	57	RAMOS Optima	96, 98-99
CPW-20TAC-0U	72	DP-ZE	118	RAMOS Plus	96, 98-99
CPW-20TD	71	DP-ZM-CL	118	RAMOS Ultra	96-97, 99
CPW-20TDC	71	DP-ZM-E	101	RAMOS Ultra ACS	96, 100-101
CPW-BR-BR	73	DP-ZM-EML	101	RDF	6, 14-17, 113
CPW-CDB	73	DP-ZM-ES	101	REH	56-57
CPW-ORB	73	HDWM	60-64, 72	REN	50, 53
CPW-RRB	73	HDWM-FDF	61	Ri7	26-31
DP-AFD	91	HDWM-FSS	64	RM7	26, 34-37
DP-BP	92	HDWM-HM	60, 63	RM7-CO	40
DP-DD	114	HDWM-HML-1F	60	RM7-DO	40
DP-DR	121	HDWM-VCT	64,72	RM7-HVE	37
DP-DSZ	117	HDWM-VMF	60, 62, 64	RM7-SP	40
DP-DSZ-S DP-DU	57	HDWM-VMF-ACT	64	RM7-TB	40 99-102
DP-EHC-1000	113 47	HDWM-VMF-B15 HDWM-VMF-B25	64 64	RMS RMS-ACS	100-101
DP-ES	46	HDWM-VMF-BLANK	64	RMS-ACS-CMIF	101
DP-HPR	91	HDWM-VMR-19	64	RMS-ACS-EMT	101
DP-HR	118	HDWM-VMR	60, 62	RMS-ACS-HID	101
DP-KO	122	HDWM-VMR-ACT	64	RMS-ACS-U-RDU	100
DP-KP	72, 123	HVMF	76	RMS-CON-ACS	101
DP-KP-LEM	72, 123	HVMP	76	RMS-CPS	102
DP-MO	121	HVMS-B	77	RMS-I	99
DP-MP-S1U	57	HVMS-CH	77	RMS-U	99
DP-NO	122	HVMS-H-600	76	ROF-CS	25
DP-OJ	123	HVMS-H-800	76	ROF-ES	45-46
DP-PDN	120	HVMS-H-A	76	ROF-LV	47
DP-PO	112	IP-BA	107	ROF-RS	45-46
DP-PO-xxxV	113	IP-C	109	ROP	24
DP-P-PDN	119-120	IP-DEA	108	RS	43
DP-P-PFN	119-120	IP-DEI	107	RSB	6, 18-20
DP-P-PFN-FI	120	IP-DMA	108	RSB-CM	20
DP-PP-S1U	57	IP-DMI	107	RSF	6-11, 93, 113
DP-PR	119	iSEVEN FLEX SERVER	38-40	RSF BYTEline	6, 12-13
DP-PT	112	iseven server	32-33	RSG2	42
DP-PT-S200	57	K-LKD	104	RSG4	41
DP-PV	114	K-SA	104	RSSD-BRACE	44
DP-PZ	112	LES-RACK	105	RSSD-RAIL	44
DP-PZ-xxxV	113	OPW	65-70, 73	RSSD-VP	44
DP-RE	114	OPW-10DRC-YL	68 68	RUD	50, 52
DP-ROF-CW DP-RP	91 106	OPW-10DRFC-YL OPW-10DRF-TB3	68 68	RUN STS	50-51 93
DP-RP-LC-C3	106	OPW-10DRF-TB3	68	VO-P	93 74
DP-RP-VM	109	OPW-10DRF-TB30	68	VO-W	74 75
DP-RS	46	OPW-10DRF-16	68	v O-vv	/5
DP-RSB-CW	20	OPW-10DR-YL	68		
DP-RSF-CW	91	OPW-10IA45-YL	68		
DP-RSF-CWA	91	OPW-10TP-YL	68-69		
DP-RxF-CW	91	OPW-3016RDC-YL	67		
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