Pre-Configured Industrial Distribution Frame (IDF)

specifications

Rack mount Ethernet switches shall be deployed and protected with an industrial distribution frame (IDF) enclosure which meets UL 508A, UL Type 4/12 or 4/4X/12 and IP66. The IDF shall be thermally and spatially validated for use in environments up to 50°C. There shall be a wall mount option with secure front and rear switch access. The IDF shall accommodate two distribution layer switches and up to three access layer switches with UPS for commonly used copper and fibre based deployments. Ground bar, infrastructure ground cables, and ESD ports shall be included. A standardized, pre-configured equipment and accessory layout shall be included.



Standards:	UL 508A Standard for Industrial Control Panels, cUL Listed per CSA, UL Type 4/12 or 4/4X/12 and IP66 Rated		
Dimensions:	Mild steel: 1233mm H x 600mm W x 761mm D 316 stainless steel: 1233mm H x 600mm W x767mm D		
Mounting:	Wall mount		
Capacity:	26 Rack Units , (5) 1U switches and (1) 2U UPS, 96 incoming copper cables (expandable to 144), 72 strands fibre or 36 fibre duplex ports (expandable to 72-ports) Maximum load rating of 158.8kg		
Color and material:	Mild steel enclosure with RAL7035 light-gray polyester powder paint 316 stainless steel enclosure with #4 stainless finish		
Thermal analysis:	Validated to 50°C with recommended AC unit		
Included with IDF:	Pre-Installed: (1) Square hole front and rear rack angles, (1) FRME1U fibre enclosure, (2) CPPL48WBLY 48-port patch panel, (2) CMPHF1 cable management, (1) RGRB19CN grounding bar, (3) equipment ground whips, (1) 254mm DIN Rail, (2) fibre spools, (2) back panels, (2) ESD ports, 762mm length of duct, cage nuts, labeling for cable routing, strain relief bars		
	Included Accessories: (1) ESD wrist strap, (1) HLS-15R0 hook and loop, (1) RGCBNJ660P22 #6 AWG grounding cable, mounting hardware, conduit schedule and ingress template, installation guide		

key features and benefits

Pre-Configuration:	Reduces time required for planning, designing, procurement, and installation resulting in 25% faster implementation
Defined equipment locations and cable routings:	Incorporate Panduit developed best practices in connectivity, cable management, wiring, and grounding to ensure network reliability
Detailed installation guide:	Provides easy, repeatable design instructions assuring consistency and saving time on the job-site
Thermally validated:	Panduit Laboratories tested the thermal performance with recommended AC unit and verified the ambient limitations to 50°C with the specified network equipment; additional back end space allows for 3X the cooling capacity over typical deployments for increased reliability
Key-locking handle for mild steel enclosure:	Limits access to authorized personnel for a secure network

applications

The Panduit Pre-Configured IDF is engineered to deploy and protect 19" rack mount switches on the factory floor in an industrial network. Consistent design and equipment placement is offered to reduce engineering and deployment time.

The IDF wall mount enclosure protects switches, both physically and thermally in harsh industrial environments. It is designed around the use of popular fibre based Cisco* 3850 and copper based Cisco* 2960S switch deployments.

*Cisco is a registered trademark of Cisco Technology Inc.

^Quantities given for (2) 2960S switches. A 3rd switch may require more connectivity.
+For RUs 1-14 order 2M patch cord FX2ELLNLNSNM002 and for RUs 15-26 order 1M patch cord FX2ELLNLNSNM001.





Pre-Configured IDF

Mild Steel Enclosure: ZDF48-EA 316 Stainless Steel Enclosure: ZDF48-6EA

Panduit Products, 0	Ordered Separately
Small Diameter Patch Cords (order qty. 96)^:	UTP28SP8INBU
Mini-Com [®] Modules Cat 6, RJ45 (order qty. 96)^:	cj688TGBU
Cat 6 UTP Copper Cable, LSZH:	PUL6004WH-EY
LC Opticom [®] OM3/OM4 FAP:	FAP12WAQDLCZ
Opti-Core® Fibre Optic Patch Cords, LC to LC MM, duplex+:	FX2ELLNLNSNM001 FX2ELLNLNSNM002
Opti-Core [®] OM3 Fibre Optic Distribution Cable, MM, LSZH:	FQDLX24
LC OptiCam® OM3/OM4 Duplex Fibre Optic Connectors:	FLCDMCXAQY
	or 3rd Cisco* 2960S
Switch, Ordered Se	parately
Switch, Ordered Se Mini-Com [®] Modular	
Mini-Com® Modular Patch Panel Strain Relief Bar	CPPL48WBLY
Mini-Com [®] Modular Patch Panel Strain Relief Bar 48-port, 2 RU: Strain Relief Bar	CPPL48WBLY
Mini-Com [®] Modular Patch Panel Strain Relief Bar 48-port, 2 RU: Strain Relief Bar 178mm Multi-Depth Strain Relief Bar	CPPL48WBLY
Mini-Com® Modular Patch Panel Strain Relief Bar 48-port, 2 RU: Strain Relief Bar 178mm Multi-Depth Strain Relief Bar Extended 50mm: Strain Relief Bar	CPPL48WBLY : SRB19MDBL SRB19BLY SRBS19BL-XY
Mini-Com® Modular Patch Panel Strain Relief Bar 48-port, 2 RU: Strain Relief Bar 178mm Multi-Depth Strain Relief Bar Extended 50mm: Strain Relief Bar Straight: Vertical Cable Manager 50mm Wid	CPPL48WBLY : SRB19MDBL SRB19BLY SRBS19BL-XY fe , CMVDR2S
Mini-Com® Modular Patch Panel Strain Relief Bar 48-port, 2 RU: Strain Relief Bar 178mm Multi-Depth Strain Relief Bar Extended 50mm: Straight: Vertical Cable Manager 50mm Wid Short (order qty. 2): StructuredGround [®] Bonding Cage Nuts and Screws	CPPL48WBLY : SRB19MDBL SRB19BLY SRBS19BL-XY fe, CMVDR2S
Mini-Com® Modular Patch Panel Strain Relief Bar 48-port, 2 RU: Strain Relief Bar 178mm Multi-Depth Strain Relief Bar Extended 50mm: Strain Relief Bar Straight: Vertical Cable Manager 50mm Wid Short (order qty. 2): StructuredGround [™] Bonding Cage Nuts and Screws Green, #12-24: Cage Nut and	CPPL48WBLY : SRB19MDBL SRB19BLY SRBS19BL-XY fe, CMVDR2S CNB4K CNWS1224-C
Mini-Com® Modular Patch Panel Strain Relief Bar 48-port, 2 RU: Strain Relief Bar 178mm Multi-Depth Strain Relief Bar Extended 50mm: Strain Relief Bar Straight: Vertical Cable Manager 50mm Wid Short (order qty. 2): StructuredGround [™] Bonding Cage Nuts and Screws Green, #12-24: Cage Nut and Screws #12-24:	CPPL48WBLY : SRB19MDBL SRB19BLY SRBS19BL-XY fe, CMVDR2S CNB4K CNWS1224-C

(order qty. 2-3): 2U UPS up to 1500W

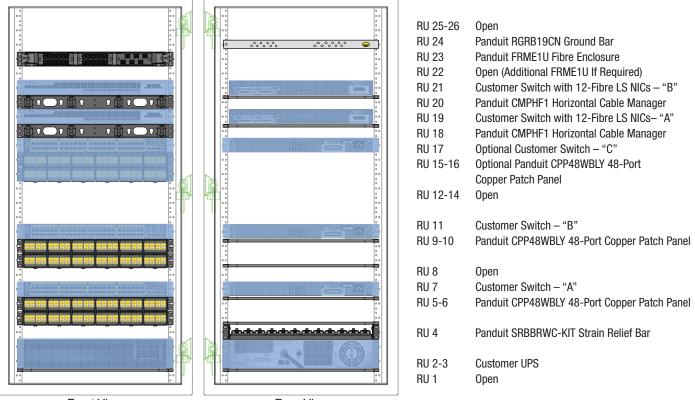
2960S

Cisco* Switches

www.panduit.com/idf

Pre-Configured Industrial Distribution Frame (IDF)

IDF elevation recommendation



Front View

Rear View

DF	operating	range	with	air	conditioner	

Recommended Air Conditioning depending on Factory Floor Ambient Temperature and Electronic/Heat Load of Network Equipment:

Impact of N280426G050* Air Conditioner on Maximum Allowable Ambient Temperature in Factory

No Air Conditioner			
	Rating (C°)		
Layout	UPS	No UPS	
(2) 3850 and (3) 2960S	20	25	
(2) 3850 and (2) 2960S	25	30	
(2) 3850 and (1) 2960S	25	30	
(2) 3850	30	35	
(1) 3850 and (1) 2960S	30	35	
(1) 3850	35	40	

N28* Air Conditioner Installed			
	Rating (C°)		
Layout	UPS	No UPS	
(2) 3850 and (3) 2960S	50	52	
(2) 3850 and (2) 2960S	50	52	
(2) 3850 and (1) 2960S	52	52	
(2) 3850	52	52	
(1) 3850 and (1) 2960S	52	52	
(1) 3850	52	52	

*Purchased separately from Pentair.

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