Pre-Configured Industrial Distribution Frame (IDF), 12U

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 or two access layer switches with UPS for commonly used copper and fiber based deployments.Grounding shall be pre-installed in the enclosure. A standardized, pre-configured equipment and accessory layout shall be included.

Front View

Rear View

technical information

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: 24.09"H x 23.62"W x 31.06"D (612mm x 600mm x 789mm) 316L stainless steel: 24.11"H x 23.62"W x 30.75"D (612.4mm x 600mm x 781mm)
Mounting:	Wall mount
Capacity:	12 Rack Units, (2) 1U switches and (1) 2U UPS, 96 incoming copper cables, 72 strands fiber or 36 fiber duplex ports (expandable to 72-ports) Maximum load rating of 250 lbs. (113.4 kg)
Color and material:	Mild steel enclosure with RAL7035 light-gray polyester powder paint 316L 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 fiber enclosure, (2) CPPL48WBLY 48-port patch panel, (1) RGRB19CN grounding bar, (3) equipment ground whips, (1)10" DIN Rail, (2) fiber spools, (1) back panel, (2) ESD ports, 30" 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 up to 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 helping to assure 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 fiber 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.

Pre-Configured IDF

Mild steel enclosure: ZDF242430

316L stainless steel enclosure: ZDF242430-6

Panduit Products, Ordered Separately

Small diameter patch cords (order qty. 96)^: UTP28SP8INBU

Small diameter shielded patch cords (order qty. 96)^: STP28X0.2MBU

Mini-Com® Modules, Cat 6, RJ45 (order qty. 96)^: CJ688TGBU

Mini-Com® Shielded Modules, Cat 6A, RJ45 (order qty. 96)^: CJS6X88TGBUY

Cat 6 UTP copper cable, riser: PUR6004BU-UY

LC Opticom® OM3/OM4 FAP: FAP12WAQDLCZ FAP6WAQDLCZ

Opti-Core® Fiber Optic Patch Cords, LC to LC MM, duplex: FX2ERLNLNSNM001

Opti-Core® OM3 Fiber Optic Distribution Cable, MM, riser: FODRX24Y

LC OptiCam® OM3/OM4 Duplex Fiber Optic Connectors: FLCDMCXAQY

PanView iQ™ Networked Environmental Power Outlet Unit (Americas): PL1A1C0BA08E1

PanView iQ™ Networked Environmental Power Outlet Unit (Global): P1L2B1L2N16BQA0
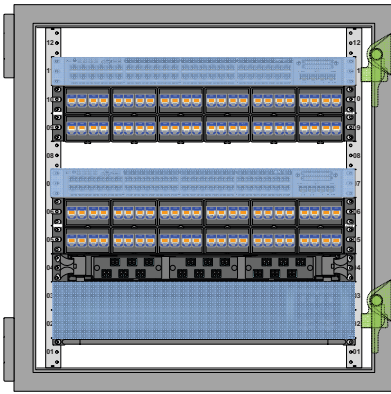
Other Equipment, Ordered Separately

Pentair AC Unit: T200216G100 T200226G100

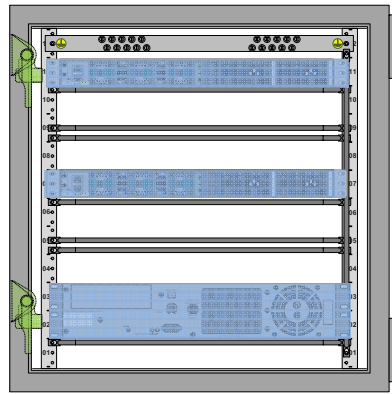**19" rack mount switches (order qty. 2) examples:** Cisco* Switches 3850 or 2960S

2U UPS up to 1500W

12U IDF elevation recommendation

Front View

Rear View

RU 12	Panduit RGRB19CN Ground Bar
RU 11	Customer Switch – "B"
RU 9-10	Panduit CPPL48WBLY 48-Port Patch Panel
RU 8	Open
RU 7	Customer Switch – "A"
RU 5-6	Panduit CPPL48WBLY 48-Port Patch Panel
RU 4	Panduit FRME1U Fiber Rack Mount Enclosure
RU 2-3	Customer UPS or PDU
RU 1	Open

Front View

Rear View

IDF operating range with air conditioner

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

Impact of T200216G100* Air Conditioner on Maximum Allowable Ambient Temperature in Factory

No Air Conditioner			T20* Air Conditioner Installed		
	Rating (C°)			Rating (C°)	
Layout	UPS	No UPS	Layout	UPS	No UPS
(2) 3850	14	21	(2) 3850	50	55
(2) 2960S	17	23	(2) 2960S	55	55
(1) 3850 and (1) 2960S	15	22	(1) 3850 and (1) 2960S	55	55

*Purchased separately from Pentair.

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

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