

Pre-Configured Universal Distribution Frame (UDF) – 12U

specifications

Industrial Ethernet switches shall be deployed and protected with a Universal Distribution Frame (UDF) enclosure which meets UL 508A, UL Type 4/4X/12, and IP66 rated. The UDF shall be thermally and spatially validated for use in environments up to 55°C. There shall be a wall mount option with secure front and rear switch access. The 12U UDF shall accommodate a minimum of two and maximum of four Industrial Ethernet switches for commonly used copper and fiber based deployments. Grounding, cable management, redundant power supplies, terminal blocks, and optional UPS shall be pre-installed in the enclosure. Class 2 power circuits shall be pre-wired, labeled, and tested. A standardized accessory layout and detailed installation guide shall be included.



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) 316 stainless steel: 24.11"H x 23.62"W x 30.75"D (612.4mm x 600mm x 781mm)
Mounting:	Wall mount
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 55°C with recommended AC unit

key features and benefits

Universal design	Works with most DIN mount industrial Ethernet switches, providing design flexibility
Switch ready solution	Reduces time required for planning, designing, procurement, and installation resulting in simpler specification and up to 50% faster implementation
Pre-fabricated build	Pre-installed front and rear equipment rails, back panel with cable management, and wall mount option with secure front and rear access
Pre-engineered power infrastructure	Terminal blocks wired, tested, and validated for power distribution
Included redundant power supplies	Minimize the risk of equipment failure for improved network reliability
Optional maintenance free Ultracapacitor 100W UPS	Prevents rebooting of switch during short power outages and includes networked remote management which monitors Hold Time and Lifetime from the plant floor or office, saving time and money
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 ensure consistency and saving time on the job-site
Panduit Certification PlusSM System Warranty*	25 year standards based performance warranty that applies to all registered links and/or channels in an eligible structural cabling system installation

applications

The Panduit Pre-Configured UDF is engineered to deploy and protect Industrial Ethernet switches on the factory floor in an industrial network. Consistent design, equipment placement, cable management, and power features minimize engineering and installation time resulting in faster implementation.

With UL Type 4/4X/12 and IP66 ratings, the enclosures provide reliability and high performance, as an integral component of the end-to-end solution for Industrial Networks and allows easy deployment of cabling subsystem TIA-1005.

*To be eligible for the Certification Plus System Warranty, the system must be registered with Panduit, and must meet all requirements, including without limitation, the requirement that it be installed by a Panduit ONESM Enterprise Structured Cabling Partner or an Industrial Automation Infrastructure Partner who has been accredited with the Deploy Competency and meets all Partner ONE Partner requirements. Details of additional requirements may be found at <https://www.panduit.com/content/panduit/en/legal-information/Certification-Plus-System-Warranty.html>.

Pre-Configured UDF
12RU: ZDF24 See part table on page 2

Din Mount Tiers for Industrial Switch Expansion:

Without UPS: ZDINS24
With UPS: ZDINS25
Universal Voltage Isolation Barrier: UVIB

Panduit Products, Ordered Separately

Small diameter patch cords: UTP28SP0.5MBU

Small diameter shielded patch cords: STP28X0.5MBU

Mini-Com® Modules, Cat 6, RJ45: CJ688TGBU

Mini-Com® Shielded Modules, Cat 6A, RJ45: 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
FX2ERLNLNSNM002

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

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

StructuredGround™ Bonding Cage Nuts and Screws Green, #12-24: CNB4K

Cage Nut and Screws #12-24: CNWS1224-C

Other Equipment, Ordered Separately

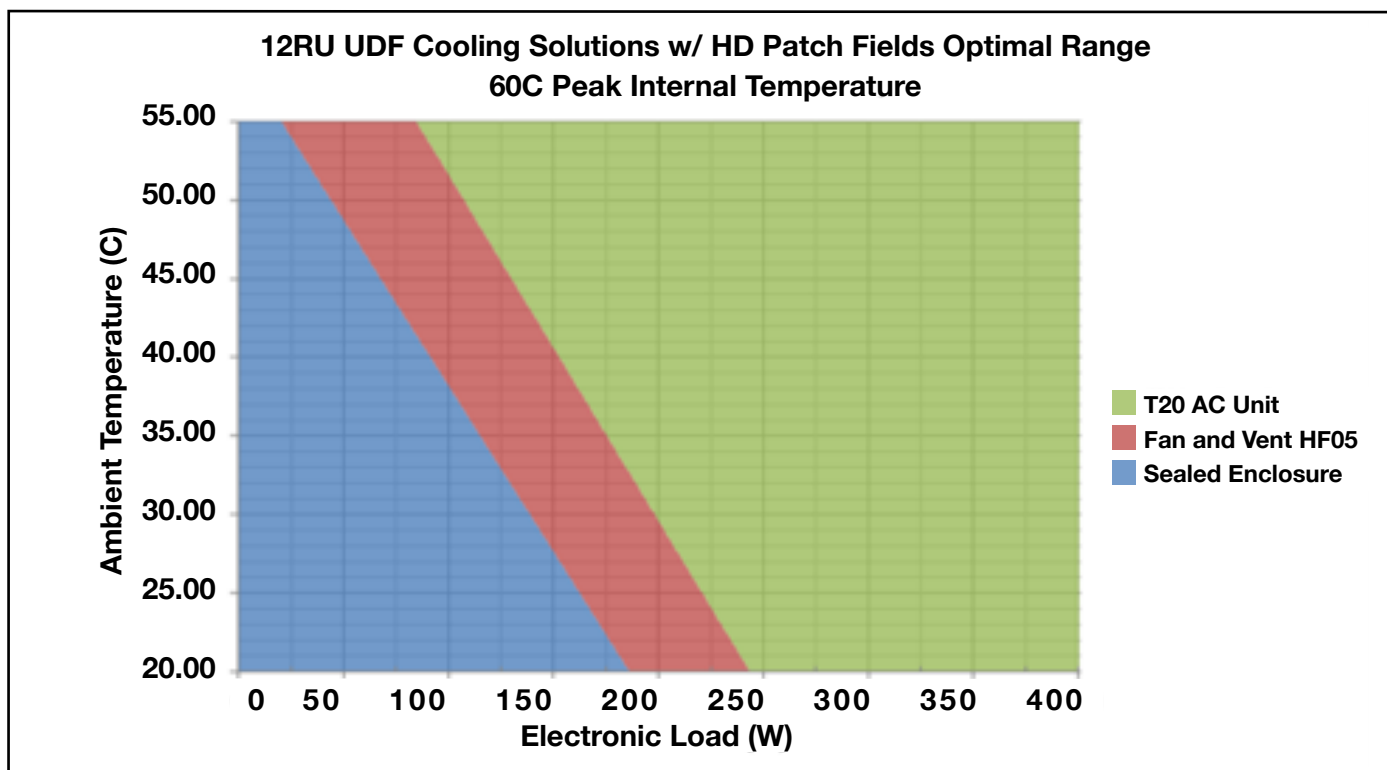
nVent T-Series Compact AC Unit: T200216G100
T200226G100

nVent Fan and Exhaust Grille Kit: HF0516414
HG0500404

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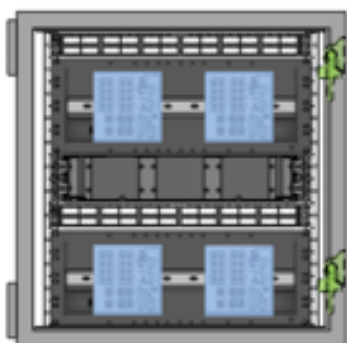
Part Number	Enclosure Type	Switch Ready Deployment	Power Options
ZDF24-S24	4/12 Steel	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF24-624	4X 316 SS	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF24-S25	4/12 Steel	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and one maintenance free UPS
ZDF24-625	4X 316 SS	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and one maintenance free UPS
ZDF24-S45	4/12 Steel	(4) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and two maintenance free UPSs

UDF operating range with air conditioner

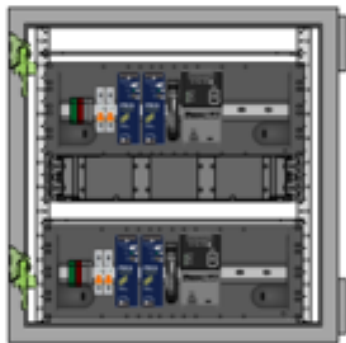


Pre-Configured Universal Distribution Frame (UDF) – 12U

12U UDF elevation recommendation



Front View



Rear View

- RU 12 PANDUIT 48 PORT PATCH PANEL CPP48HDWBLY
- RU 8-11 PANDUIT DIN RAIL BRACKET READY FOR TWO SWITCHES
- RU 6-7 PANDUIT FIBER ENCLOSURE FRME2U
- RU 5 PANDUIT 48 PORT PATCH PANEL CPP48HDWBLY
- RU 1-4 PANDUIT IN RAIL BRACKET READY FOR TWO SWITCHES
- RU 1 PANDUIT RGRB19CN GROUND BAR



Front View



Rear View

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