

# Pre-Configured Universal Distribution Frame (UDF) – 26U

## 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 52°C. There shall be a wall mount option with secure front and rear switch access. The 26U UDF shall accommodate a minimum of six and maximum of eight 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

<b>Standards:</b>	UL 508A Standard for Industrial Control Panels, cUL Listed per CSA, UL Type 4/12 or 4/4X/12, and IP66 Rated
<b>Dimensions:</b>	Mild steel: 48.54"H x 23.62"W x 29.95"D (1233mm x 600mm x 761mm) 316 stainless steel: 48.54"H x 23.62"W x 30.20"D (1233mm x 600mm x 767mm)
<b>Mounting:</b>	Wall mount
<b>Color and material:</b>	Mild steel enclosure with RAL7035 light-gray polyester powder paint 316 stainless steel enclosure with #4 stainless finish
<b>Thermal analysis:</b>	Validated to 52°C with recommended AC unit

## key features and benefits

<b>Universal design</b>	Works with most DIN mount industrial Ethernet switches, providing design flexibility
<b>Switch ready solution</b>	Reduces time required for planning, designing, procurement, and installation resulting in simpler specification and up to 50% faster implementation
<b>Pre-fabricated build</b>	Pre-installed front and rear equipment rails, back panel with cable management, and wall mount option with secure front and rear access
<b>Pre-engineered power infrastructure</b>	Terminal blocks wired, tested, and validated for power distribution
<b>Included redundant power supplies</b>	Minimize the risk of equipment failure for improved network reliability
<b>Optional maintenance free Ultracapacitor 100W UPS</b>	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
<b>Defined equipment locations and cable routings</b>	Incorporate Panduit® developed best practices in connectivity, cable management, wiring, and grounding to ensure network reliability
<b>Detailed installation guide</b>	Provides easy, repeatable design instructions helping to ensure consistency and saving time on the job-site
<b>Panduit Certification Plus<sup>SM</sup> System Warranty*</b>	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 ONE<sup>SM</sup> 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

**26RU: ZDF48 See part table on page 2**

### Din Mount Tiers for Industrial Switch Expansion:

<b>Without UPS:</b>	ZDINS24
<b>With UPS:</b>	ZDINS25
<b>Universal Voltage Isolation Barrier:</b>	UVIB

### Panduit Products, Ordered Separately

<b>Small diameter patch cords:</b>	UTP28SP0.5MBU
<b>Small diameter shielded patch cords:</b>	STP28X0.5MBU
<b>Mini-Com® Modules, Cat 6, RJ45:</b>	CJ688TGBU
<b>Mini-Com® Shielded Modules, Cat 6A, RJ45:</b>	CJS6X88TGBUY
<b>Cat 6 UTP copper cable, riser:</b>	PUR6004BU-UY
<b>LC Opticom® OM3/OM4 FAP:</b>	FAP12WAQDLCZ FAP6WAQDLCZ

<b>Opti-Core® Fiber Optic Patch Cords, LC to LC MM, duplex:</b>	FX2ERLNLNSNM01 FX2ERLNLNSNM02
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<b>Opti-Core® OM3 Fiber Optic Distribution Cable, MM, riser:</b>	FODRX24Y
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<b>LC OptiCam® OM3/OM4 Duplex Fiber Optic Connectors:</b>	FLCDMCXAQY
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<b>StructuredGround™ Bonding Cage Nuts and Screws Green, #12-24:</b>	CNB4K
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<b>Cage Nut and Screws #12-24:</b>	CNWS1224-C
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### Other Equipment, Ordered Separately

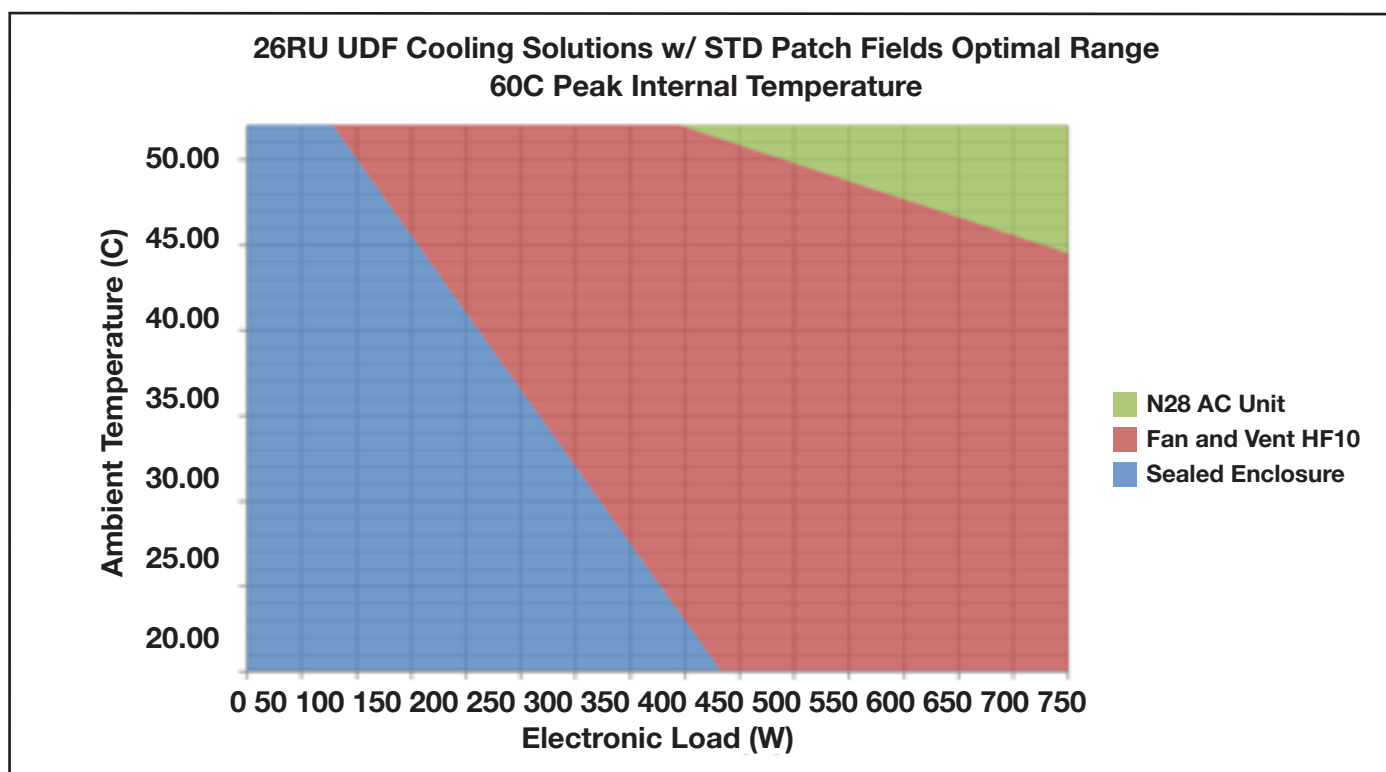
<b>nVent SpectraCool Narrow Compact AC Unit:</b>	N280416G100
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<b>nVent Fan and Exhaust Grille Kit:</b>	HF1016414 HG1000404
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# Pre-Configured Universal Distribution Frame (UDF) – 26U

Part Number	Enclosure Type	Switch Ready Deployment	Power Options
ZDF48-S64	4/12 Steel	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF48-664	4X 316 SS	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF48-S65	4/12 Steel	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and three maintenance free UPSs
ZDF48-665	4X 316 SS	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and three maintenance free UPSs
ZDF48-S85	4/12 Steel	(8) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and four maintenance free UPSs

## UDF operating range with air conditioner

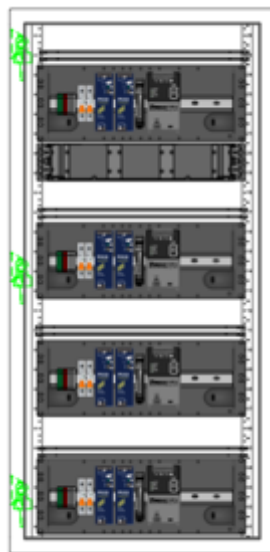


# Pre-Configured Universal Distribution Frame (UDF) – 26U

## UDF elevation recommendation



Front View



Rear View

- RU 24 PANDUIT CPP48HDWBLY PATCH PANEL
- RU 23 PANDUIT DPFP1 FILLER PANEL
- RU 8-11 PANDUIT DIN RAIL BRACKET READY FOR TWO SWITCHES
- RU 19-20 PANDUIT FIBER ENCLOSURE FRME2U
- RU 18 PANDUIT CPP48HDWBLY PATCH PANEL
- RU 17 PANDUIT DPFP1 FILLER PANEL
- RU 13-16 PANDUIT DIN RAIL BRACKET READY FOR TWO SWITCHES
- RU 12 PANDUIT CPP48HDWBLY PATCH PANEL
- RU 11 PANDUIT DPFP1 FILLER PANEL
- RU 7-10 PANDUIT DIN RAIL BRACKET READY FOR TWO SWITCHES
- RU 6 PANDUIT CPP48HDWBLY PATCH PANEL
- RU 5 PANDUIT DPFP1 FILLER PANEL
- RU 1-4 PANDUIT DIN RAIL BRACKET READY FOR TWO SWITCHES
- RU 1 PANDUIT RGRB19CN GROUND BAR



Front View



Rear View

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