

Universal Network Zone System

PANDUIT™

SPECIFICATION SHEET

specifications

The universal network zone system shall include copper/fiber uplinks and downlinks optimized for industrial Ethernet switches. System shall incorporate redundant power supplies and optional UPS and PoE power supply. The enclosure shall be CE, IP66 rated, UL Type 4/12/4X and UL 508A. A removable, pre-engineered back plate with DIN rails shall be incorporated in the enclosure. Pre-installed accessory side panels, fiber slack spool, and L rings shall be included for cable management. The door shall be secured with 3mm double bit or slotted latch drive feature. The door shall hinge on the right or left. Class 2 power circuits shall be pre-wired, labeled, and tested. A barrier shall be present to isolate IT personnel from high voltage power circuit.



technical information

Standards:	CE, IP66 Rated, UL Type 4/12 or 4X, UL 508A Standard for Industrial Control Panels
Dimensions:	Z23U: 914mm H x 610mm W x 297mm D Z22U: 610mm H x 610mm W x 297mm D
Color and material:	Enclosures: Gray, 14 gauge cold roll steel or 316 stainless steel Back panels: 14 gauge galvanized steel or 304 stainless steel
Thermal analysis:	Validated to 40°C ambient outside of enclosure or 60°C maximum within enclosure at up to 95% (non-condensing) humidity
Installation:	Wall mount with optional outside-mount flange

key features and benefits

Switch ready solution:	Reduces time required for planning, designing, procurement, and installation, resulting in simpler specification and up to 75% faster implementation
Universal design:	Works with most DIN mount industrial Ethernet switches, providing design flexibility
Designed to accept customer supplied industrial switches:	Offer management and diagnostics from within IT and controls environments to optimize network traffic
Copper/fiber uplinks or patch field and copper/fiber connectivity:	Enables troubleshooting of network connections and verification of field terminations
Included redundant power supplies:	Minimize the risk of equipment failure for improved network reliability
Optional UPS:	Prevents rebooting of switch and loss of network during power outages
Optional PoE:	Provides 48Vdc power to the switch for PoE devices to simplify PoE capable deployments and save money on the purchase of PoE injectors
Isolation barrier:	Segregates higher line voltage from lower voltage switch for increased safety
Bonding provisions and grounding bar:	Ensure path to ground to protect personnel and equipment
Gland plate:	Allows quick and easy access to machine ingress points into enclosure
Detailed installation guide:	Provides easy, repeatable design instructions assuring consistency and saving time on the job-site

applications

The Panduit Universal Network Zone System is designed to rapidly deploy an industrial Ethernet network between the enterprise and plant floor. Copper/fiber connectivity and power features minimize engineering and installation time resulting in faster implementation. The Universal Network Zone System provides usability similar to IT switches for industrial

switches on the plant floor. This ensures that management and control of the network does not get in the way of making the most effective use of available network data. With CE, IP66 rating and UL Type 4/12/4X, the enclosures provide reliability and high performance, as an integral component of the end-to-end solution for Industrial Networks.

Universal Network Zone System

See part number table on pages 2-3

Related Products

PanZone® NEMA 4X Rated Compression Fittings

Cable diameters	
2.82mm to 6.35mm:	PZNF1
Cable diameters	
5.84mm to 10.03mm:	PZNF2
Cable diameters	
4.32mm to 11.43mm:	PZNF3
Drain kit:	PZNDVK

IndustrialNet™ TX6™ Connectors

Category 6	
UTP bulkhead connector:	IAEBH6
Category 6	
STP bulkhead connector:	IAEBH6S

Fiber Uplink Accessories

Surface mount	
fiber box:	CBXF6BL-AY
LC OptiCam® connector:	FLCDMCXAQY
LC connector	
module:	CMDSAQLCBL
LC OM3 patch cord:	F92ERLNLNSNM001
Dielectric Conduited Fiber (DCF):	FOADZ12

DIN Rail Patching Accessories

Mini-Com® Copper	
8-Port DIN Rail Patch Panel:	CDPP8RG
Mini-Com® Fiber	
8-Port DIN Rail Patch Panel:	FDME8RG
Mini-Com® Single Port DIN Rail Mount Adapter:	CADIN1IG^

Copper Connectivity

UTP patch cord:	UTPSPL1MY
UTP	
Mini-Com® Jack:	CJ688TGIW
STP patch cord:	STP6X1MIG
STP	
Mini-Com® Jack:	CJS688TGY

TX6500™ Copper Cable

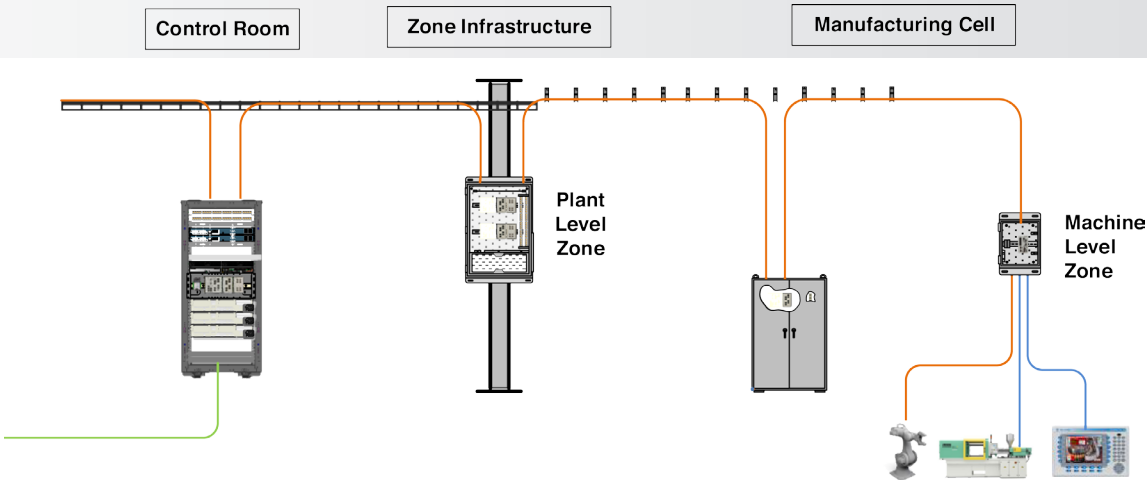
Category 6, UTP:	PUL6004BU-EY
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^For standard colors other than International Gray, replace IG in part number with BL (Black), EI (Electric Ivory), IW (Off White), or WH (White).



Universal Network Zone System

Deploying Zone Network Topology

The Panduit® building block architecture for industrial networks is a highly effective way to deploy industrial Ethernet solutions in a plant floor environment. Panduit’s network zone systems building block helps to deploy industrial switches and provide a platform to improve manageability, localize network traffic, and limit Layer 2 broadcast domains‡. The network zone systems allow all cables within a cell/area zone to be managed and patched within a single enclosure. By using a zone cabling architecture, network cabling becomes easier to locate, manage, and maintain because each additional device is routed within the same pathways and enclosure. Managed cabling decreases the number of home runs throughout a facility and reduces abandoned cable in plenum spaces, to make the workplace run more efficiently and safely.



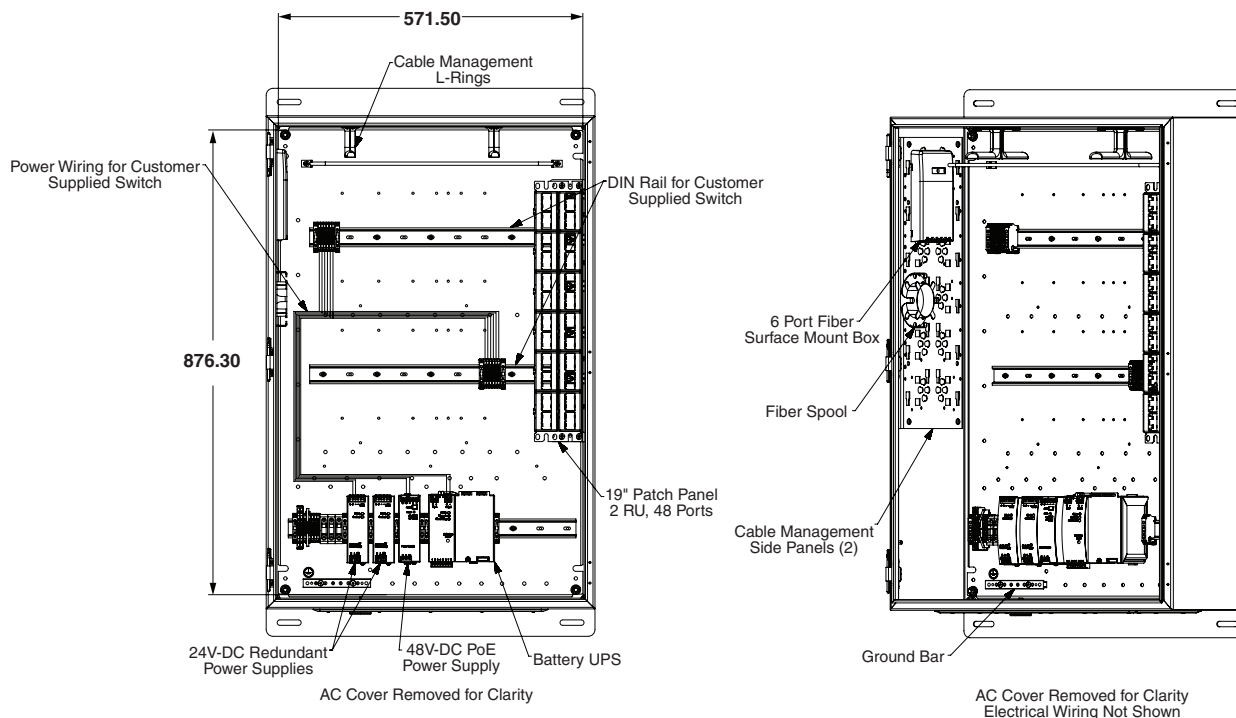
Following a zone topology with the Panduit building block architecture creates a highly scalable and flexible network deployment.

Universal Network Zone Systems - More options available at www.panduit.com/networkzone												
Part Number	Layout Image	Enclosure Type	Industrial Switch(es)	Downlink Port Connectivity Provided	Downlink Patch Field	Uplink Port Connectivity Provided	Power Infrastructure	Power Input	Din Rail Mounting	Cable Management	Isolation Barrier	Gland Plate
Z23U-S21		4/12 Steel	(1 or 2) user defined industrial DIN mount switches with max power dissipation of 42 watts at 24Vdc	(16) Cat 6 UTP jacks and cords	19" 48-port patch panel CPP48WBLY	(6) LC adaptors, (4) LC OM3 patch cords	Redundant 91.2W 24Vdc power supplies with battery based UPS	100-250 Vac Single Phase	(3) 424mm long DIN rails	178mm deep strain relief bar and adjustable ring managers	Barrier to cover high voltage equipment on lower DIN rail	One removable machinable gland plate
Z23U-621		4X 316 SS					Redundant 91.2W 24Vdc power supplies					
Z23U-S24		4/12 Steel										
Z23U-624		4X 316 SS										
Z23U-S26		4/12 Steel										
Z23U-626		4X 316 SS										
Z22U-S11		4/12 Steel	(1) user defined industrial DIN mount switch with max power dissipation of 42 watts at 24Vdc	(8) Cat 6 UTP jacks and cords	(1) 8-port patch panel CDPP8RG	(6) LC adaptors, (2) LC OM3 patch cords	Redundant 91.2W 24Vdc power supplies with battery based UPS	100-250 Vac Single Phase	(2) 424mm long DIN rails	178mm deep strain relief bar and adjustable ring managers	Barrier to cover high voltage equipment on lower DIN rail	One removable machinable gland plate
Z22U-611		4X 316 SS					Redundant 91.2W 24Vdc power supplies					
Z22U-S14		4/12 Steel										
Z22U-614		4X 316 SS										
Z22U-S16		4/12 Steel										
Z22U-616		4X 316 SS										

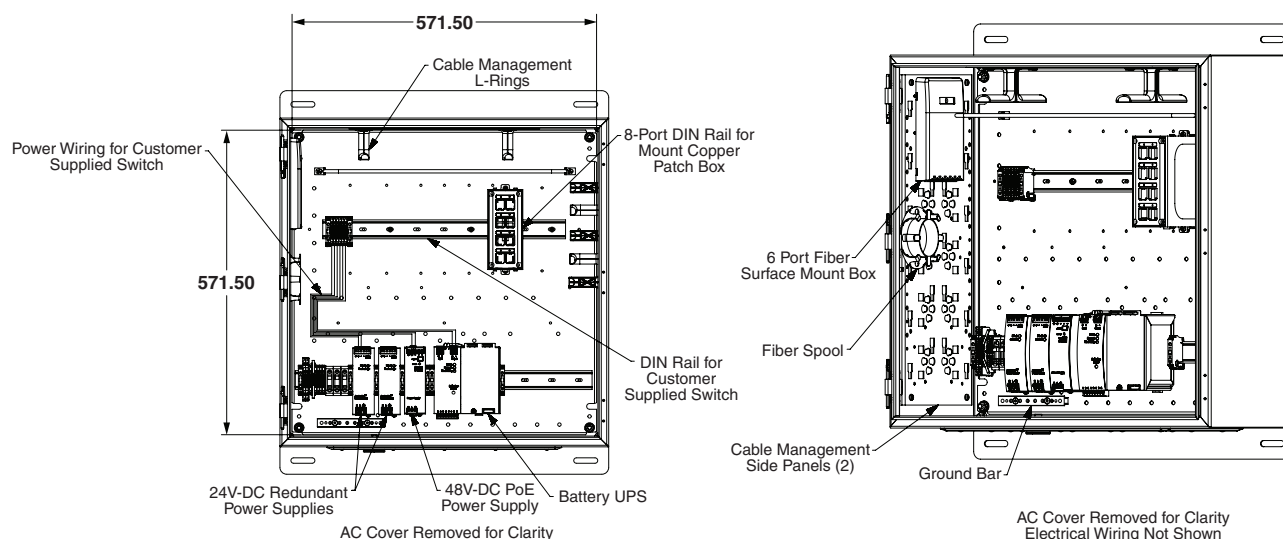
For systems with STP Category 6A patch cords and jacks, add an “S” to the end of the part number, for example Z23U-S21 comes with UTP copper connectivity, while Z23U-S21S comes with STP copper connectivity.
‡ For additional reference see the Panduit Popular Configuration Drawing “Overview of Industrial Switch Deployment” PCD0001.

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Z23U-S26



Z22U-S16



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