

Switch Ready Network Zone System

PANDUIT®

SPECIFICATION SHEET

specifications

The switch ready network zone system shall include copper/fiber uplinks and downlinks optimized for industrial Ethernet switches. System shall incorporate redundant power supplies with maintenance - free UPS. The enclosure shall be UL Type 4/12/4X and IP66 rated. 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:	UL 508A Standard for Industrial Control Panels, UL Type 4/12 or 4X, IP66 Rated
Dimensions:	Z23R: 36.0"H x 24.0"W x 11.7"D (914mm x 610mm x 297mm) Z22R: 24.0"H x 24.0"W x 11.7"D (610mm x 610mm x 297mm)
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 faster implementation
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
Installed no battery, maintenance-free 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
Included redundant power supplies:	Minimize the risk of equipment failure for improved network reliability
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 Switch Ready Network Zone System is designed to rapidly deploy an EtherNet/IP*** network between the enterprise and plant floor. Copper/fiber connectivity and power features minimize engineering and installation time resulting in faster implementation. The Switch Ready 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 UL Type 4/12/4X and IP66 ratings, the enclosures provide reliability and high performance, as an integral component of the end-to-end solution for Industrial Networks.

*Rockwell Automation and Allen-Bradley are registered by Rockwell Automation in the Patent and Trademark Office of the United States.

**Stratix, Stratix 8000, Stratix 5700 and Integrated Architecture are trademarks of Rockwell Automation.

***EtherNet/IP is a trademark of ODVA.

Switch Ready Network Zone System
See part number table on pages 2-3

Related Products

PanZone® NEMA 4X Rated Compression Fittings

Cable diameters 0.115" – 0.250":	PZNF1
Cable diameters 0.230" – 0.395":	PZNF2
Cable diameters 0.170" – 0.450":	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 patch 10Gig patch cord:	FXE10-10M1Y
Opti-Core® Interlocking Armored Cable:	FOPRX12Y

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^

IndustrialNet™ TX6™ PLUS Patch Cords

UTP with dust cap:	IUTPSP3BL^^
UTP without dust cap:	IUTPSPNC3BL^^
Shielded with dust cap:	ISTPSP1MBL^^^
Shielded without dust cap:	ISTPSPNC1MBL^^^

TX6500™ Copper Cable

Category 6, UTP: PUR6504BU-UY

Suggested Allen-Bradley* Stratix products, available from Rockwell Automation***

1783-MS10T	Stratix 8000** switch
1783-MX08T	Stratix 8000 copper expansion module
1783-MX08F	Stratix 8000 fiber expansion module
1783-BMS10CGN	Stratix 5700** 10-port switch with Network Address Translation (NAT)
1783-BMS20CGN	Stratix 5700 20-port switch with NAT

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

^^For lengths other than 3 feet (5, 7, 10, 15, or 20 feet) change the length designation in the part number to the desired length.

^^^For lengths other than 1 meter (2, 3, or 5 meters) change the length designation in the part number to the desired length.

www.panduit.com/networkzone

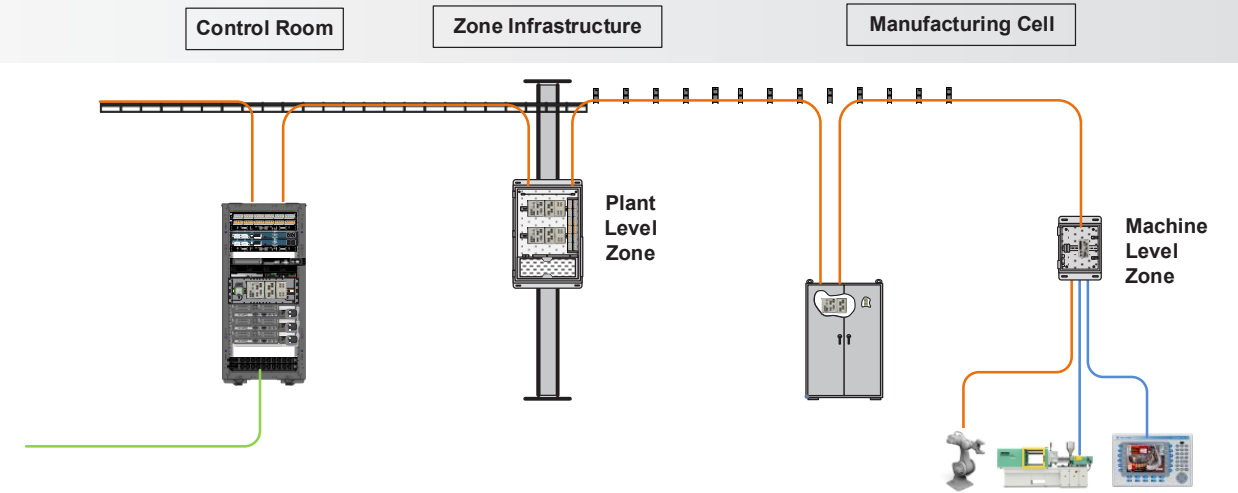
Switch Ready Network Zone System

Deploying Zone Network Topology

A highly effective way to deploy EtherNet/IP*** solutions in a plant floor environment is to follow the recommendations from Rockwell Automation* and Cisco**** in their Converged Plantwide Ethernet (CPwE) design and implementation guide. In this guide the use of zoned network topology is recommended as a best practice.

Using Panduit's Network Zone System integrated with Stratix** switches from Rockwell Automation* provides a platform for implementing small VLANs for Cell/Area Zones, as recommended in the CPwE to improve manageability and limit Layer 2 broadcast domains†.

The zone enclosures allow all cables within a Cell/Area Zone to be managed and patched within a single enclosure. By using a zone cabling architecture approach, network cabling becomes easier to locate, manage, and maintain because each additional device is routed within the same pathways and enclosures. Managed cabling helps reduce the number of home runs throughout a facility and helps reduce abandoned cable in plenum spaces, helping make the workplace run more efficiently and safely.



Following a zone topology allows a highly scalable and flexible deployment using building blocks of the CPwE architecture.

Switch Ready 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	Panduit Industrial Network UPS	Power Input	Din Rail Mounting	Cable Management	Isolation Barrier	Gland Plate	
Z23R-S15		4/12 Steel	(1) user defined industrial switch with max power of 35 watts at 24 Vdc	(16) Cat 6 UTP jacks and cords	19" 48-port patch panel CPP48WBLY	(6) LC adaptors, (2) LC patch cords	No battery, maintenance-free UPS with remote management UPS003024024015; Estimated Hold Time = 7 minutes fully expanded with Load Sense Module UPS003LSM (one UPS and LSM per switch)	100-250 Vac Single Phase	(3) 16.7 inch long DIN rails	7 inch deep strain relief bar and adjustable ring managers	Barrier to cover high voltage equipment on lower DIN rail	One removable machinable gland plate	
Z23R-S15S		4/12 Steel		(16) Cat 6 STP jacks and cords		(6) LC adaptors, (2) LC patch cords							
Z23R-615		4X 316 SS		(16) Cat 6 UTP jacks and cords		(6) LC adaptors, (2) LC patch cords							
Z23R-615S		4X 316 SS		(16) Cat 6 STP jacks and cords		(6) LC adaptors, (2) LC patch cords							
Z23R-S25		4/12 Steel	(2) user defined industrial switches with max power of 35 watts at 24 Vdc	(16) Cat 6 UTP jacks and cords		(6) LC adaptors, (4) LC patch cords							
Z23R-S25S		4/12 Steel		(16) Cat 6 STP jacks and cords		(6) LC adaptors, (4) LC patch cords							
Z23R-625		4X 316 SS		(16) Cat 6 UTP jacks and cords		(6) LC adaptors, (4) LC patch cords							
Z23R-625S		4X 316 SS		(16) Cat 6 STP jacks and cords		(6) LC adaptors, (4) LC patch cords							
Z22R-S15		4/12 Steel	(1) user defined industrial switch with max power of 35 watts at 24 Vdc	(8) Cat 6 UTP jacks and cords	(1) 8-port patch panel CDPP8RG	(6) LC adaptors, (2) LC patch cords							
Z22R-S15S		4/12 Steel		(8) Cat 6 STP jacks and cords		(6) LC adaptors, (2) LC patch cords							
Z22R-615		4X 316 SS		(8) Cat 6 UTP jacks and cords		(6) LC adaptors, (2) LC patch cords							
Z22R-615S		4X 316 SS		(8) Cat 6 STP jacks and cords		(6) LC adaptors, (2) LC patch cords							
Z22R-S25		4/12 Steel	(2) user defined industrial switches with max power of 35 watts at 24 Vdc	(16) Cat 6 UTP jacks and cords		(2) 8-port patch panels CDPP8RG							(6) LC adaptors, (4) LC patch cords
Z22R-S25S		4/12 Steel		(16) Cat 6 STP jacks and cords									(6) LC adaptors, (4) LC patch cords
Z22R-625		4X 316 SS		(16) Cat 6 UTP jacks and cords									(6) LC adaptors, (4) LC patch cords
Z22R-625S		4X 316 SS		(16) Cat 6 STP jacks and cords									(6) LC adaptors, (4) LC patch cords

† For additional reference see the Panduit Popular Configuration Drawing "Overview of Industrial Switch Deployment" PCD0001.

Leveraging the Rockwell Automation* Integrated Architecture** technology simplifies switch configuration and integration while providing machine-based diagnostics and troubleshooting tools. Stratix** Industrial Ethernet Switches also leverage the Cisco**** operating system, bringing the world's leading switching technology to the plant floor environment. Advanced switch feature sets include: STP/RSTP/MST, Resilient Ethernet Protocol (REP), Flexlinks, EtherChannel (link aggregation), QoS, IGMP snooping with querier, VLANs with trunking, IEEE 1588 PTP v2, IPv6 support, storm control with alarming, egress traffic shaping; compatible with Cisco**** Network Assistant (CNA) and CiscoWorks.

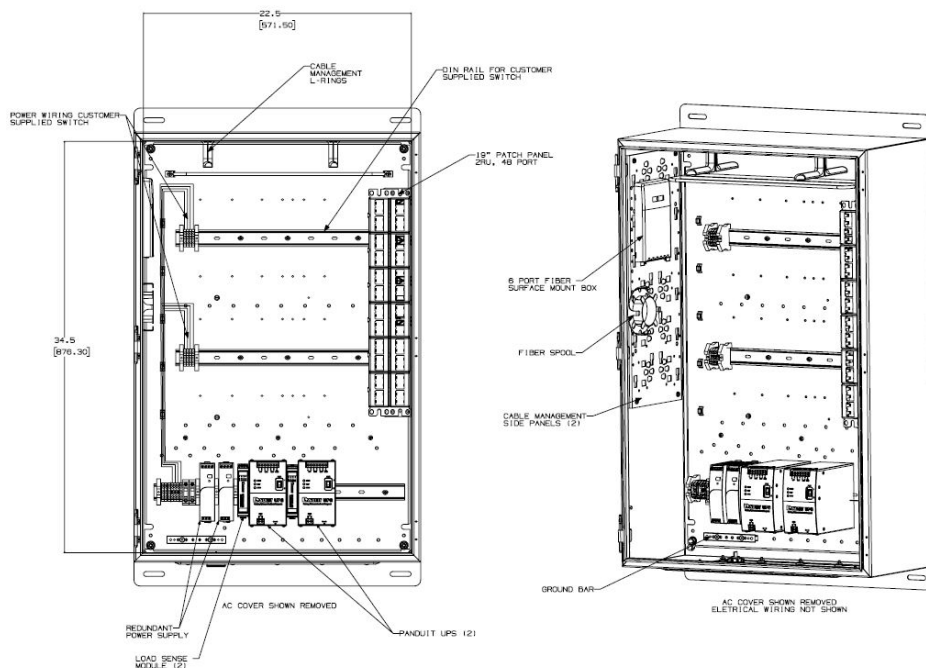
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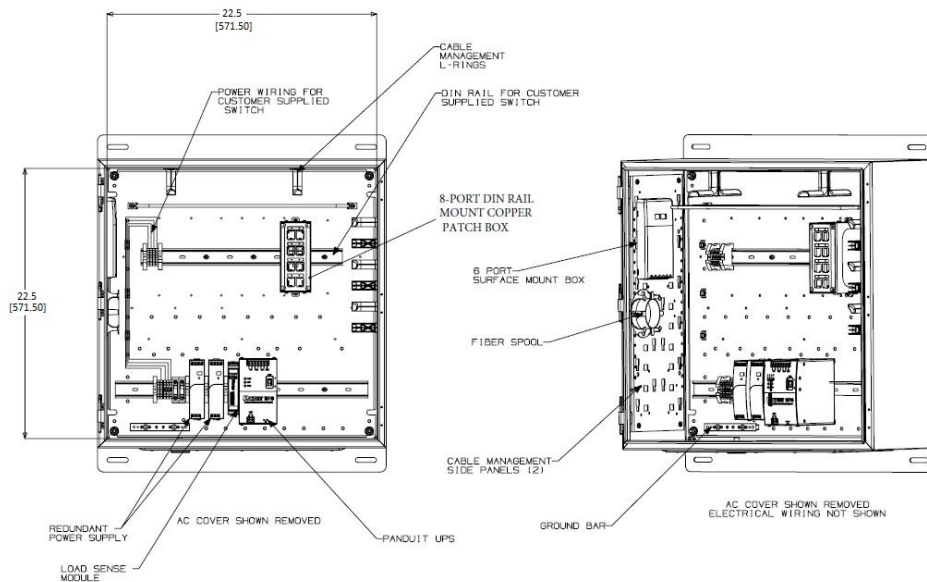
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configuration options

Z23R-S25



Z22R-S15



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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10/2015