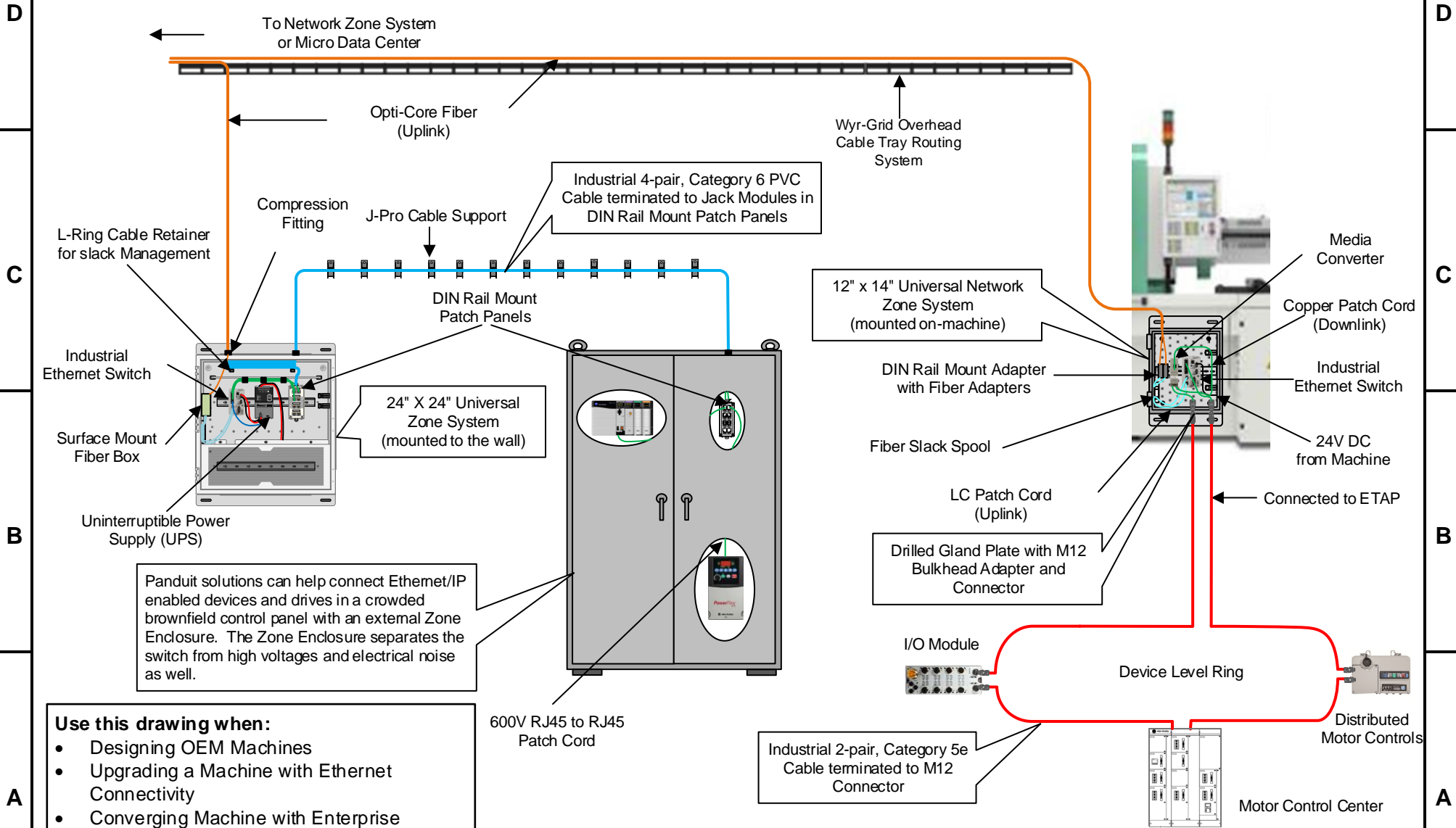


Panduit Network Zone Systems accommodate multiple Ethernet connections associated with on-machine connectivity with the use of an integrated Industrial Ethernet switch



Use this drawing when:

- Designing OEM Machines
- Upgrading a Machine with Ethernet Connectivity
- Converging Machine with Enterprise Networks

Panduit solutions can help connect Ethernet/IP enabled devices and drives in a crowded brownfield control panel with an external Zone Enclosure. The Zone Enclosure separates the switch from high voltages and electrical noise as well.

Bill of Materials

| Part Number | Description |
|---------------------------------------|--|
| Universal Network Zone Systems | |
| Z11C-S* | 12" x 14", mild steel enclosure, for one industrial switch, includes backplane and cable management. |
| Z22U-S* | 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Cat 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adaptors and redundant power supplies. |
| Zone Enclosure Add-On Items | |
| CADIN1IW | Mini-Com DIN Rail Mount Adapter mounts to standard 35mm DIN rail and accepts any single port Mini-Com Module. Includes a label and label cover. |
| CMDSAQLCBL | Duplex LC Fiber Adapter (AQ) with Module (BL) Phos |
| CJ688TG** | Category 6, RJ45, 8-position, 8-wire, UTP Mini-Com universal jack module has TG-style termination and is black. |
| CDPP8RG | IndustrialNet, 8-port DIN rail mount patch panel. Includes screws to attach faceplate and Ultimate ID labels and clear label covers. |
| FX2ERLNLNSNM002 | 2 fiber OM3 LC duplex to LC duplex patch cord OFNR (riser) rated, 16mm jacketed cable Std IL 2 meters |
| PZNF1, PZNF2, PZNF3 | NEMA 4X rated compression fittings |
| ISTPHCH1MTL | Category 5e, IndustrialNet shielded patch cord, 600V, RJ45 plug to RJ45 plug, teal, 1 meter. |
| Horizontal Cable Add-On Items | |
| FODRX12Y | 50um OM3 12 Fiber Indoor Distribution Cable, Riser (OFNR), 900um Buffered Fibers |
| IUC6C04ABL-CEG | Category 6, industrial U/UTP copper cable, 4-pair, conductors are 24/7 AWG construction with HDPE insulation, twisted in pairs, surrounded by a PVC jacket. |
| ISX6004AYL-LED | Category 6, industrial, 4-Pair, S/FTP copper cable. Conductors are 24/7 AWG construction with PE insulation, twisted in pairs, each of the 4 pairs are surrounded by a metallic foil with a braided shield and protected by a flame-retardant and halogen free (PUR) jacket, yellow. |
| ISFCH5C02ATL-XG | Category 5e, industrial (CMCMX), 2-pair, SF/UTP copper cable; stranded copper conductors are 24/7 AWG with HDPE insulation. Conductors are twisted in pairs and wrapped with a foam polypropylene tape to form a core. Both pairs are surrounded by an overall braided shield and metallic foil and covered with a TPE jacket. |
| ISPS5E44MFA | 4-position, IndustrialNet, M12 D-Code plug, for use with stranded 26/7 - 22/7 AWG Category 5e, UTP Copper Cable. |
| ICAM12DRJS | Category 5e, industrial coupler, M12 D-code to RJ45 industrial adapter, panel mount. |
| ISFX5502ATL-LED | Category 5e, industrial, 2-pair, SF/UTP copper cable; stranded copper conductors are 24/7 AWG with PE insulation. Conductors are twisted in pairs, surrounded by an overall metallic foil and braided sleeve, and covered with a PUR jacket. |
| UPS00100DC | Maintenance-free, No battery, 100 Watts, 24V DC Uninterruptible Power Supply (UPS) |
| JP2SBC50-L20 | J-Pro screw-on beam clamp for use with flanges up to 1/2 (12.7mm) thick, 2.00 (50.8mm) max. bundle capacity |
| WG12BL10 | 12"W x 10'L Wyr-Grid pathway section |

*Network Zone Enclosures available in mild steel, stainless steel or sloped versions and various levels of integration. For an expanded product offering visit panduit.com/networkpartsamerica or the online catalog at panduit.com.

About this Configuration

The Pre-Configured Network Zone System rapidly deploys an EtherNet/IP network on the plant floor with a reliable, structured approach that reduces installation time and lifecycle costs.

Universal Network Zone Systems

Universal Network Zone Enclosures are UL 508A and UL Type 4/12/4X Listed, IP66 rated and CE compliant. Pre-configured and factory tested, these solutions are designed for safe and secure network access separated from dangerous voltages and electrical noise. All systems include copper/fiber connectivity and are installed with cable management, grounding and high voltage barrier to accelerate deployments and reduce risk. Multiple levels of integration are available, delivering design flexibility in demanding industrial applications.

Deploying a Network Zone System

Network Zone Systems can be mounted to an existing crowded panel, on-machine, column or wall. Typically, armored fiber uplinks are used to achieve fast convergence to minimize downtime and high bandwidth for the future. The larger 24" x 24" (Z22U-S*) enclosure is deployed using structured cabling, providing demarcation points for testing and troubleshooting as well as providing spare ports for growth to accommodate manufacturing equipment expansion. The smaller 12" x 14" (Z11C-S*) enclosure is deployed using a point-to-point direct connect to equipment.



For more information contact your local distributor, Panduit Sales Representative, or the Panduit Industrial Network Infrastructure team at networkinfrastructure@panduit.com.