A typical industrial network deployment encompasses Panduit 5 “IN” solutions.

Industrial network switches can be deployed in a Micro Data Center, Network Zone System, Industrial Distribution Frame, Control Panel or on a Machine.

**IN-ROOM™**
- Panduit Wyr-Grid
- Panduit Opti-Core OM3 Distribution Cable
- Panduit Opticam OM3/OM4 LC Connector

A Panduit preconfigured Micro Data Center solution that houses Compute, Network and Storage devices dedicated to manufacturing. A Panduit DIN Rail bracket accommodates industrial switches. See PCD0007 for more details.

**IN-ROUTE™**
- Panduit Interlocking Armored Fiber
- A Panduit pre-configured industrial network zone enclosure is NEMA4/4X rated with a pre-configured backplane, cable management, and high voltage isolation barrier. A building block for zone architecture.

**IN-PANEL™**
- Panduit Polymer Coated Fiber (PCF) (in conduit)
- Panduit control panel solutions facilitate installation of industrial network switches by managing cables, mitigating noise, and optimizing space. See PCD0004 for more details.
- Panduit Cat 5e 600V rated Cable
- Panduit PanelMax DIN Rail Duct
- Panduit No Battery UPS
- Panduit Network Zone Systems (Layer 2)

**IN-FIELD™**
- A Panduit Network Zone System optimized for an industrial network switch mounted on or near a machine. See PCD0002 and PCD0006 for more details.
- Panduit PanelMax Noise shield
- Panduit Polymer Coated Fiber (PCF)
- Panduit Cat 6e Industrial Copper Cable
- Panduit M12 Decade Connector & Adapter
- Panduit Field Term RJ45 Plug
- Panduit Duplex field term to machines, control panels and end devices

Zoned Network Architecture
- Building block approach for network distribution
- Reduces cable home runs back to TR or Data Center reducing cable sprawl
- Improved scalability and future ready

Use this drawing when:
- Beginning a new network design
- Upgrading network
- Need to improve reliability and performance
## Bill of Material

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Micro Data Centers</strong></td>
<td></td>
</tr>
<tr>
<td>CQSMDC79</td>
<td>48 RU Pre-Configured Industrial Micro Data Center, 78.1'' (1984mm) height, network cabling, 4 casters, and shock pallet</td>
</tr>
<tr>
<td>CQSMDC48</td>
<td>24 RU Pre-Configured Industrial Micro Data Center, 48.4'' (1239mm) height, network cabling, 4 casters, and shock pallet</td>
</tr>
<tr>
<td>IABDIN4</td>
<td>IA Bracket for 19'' wide rack or cabinet. Installs DIN rail mountable equipment. 4 RU high</td>
</tr>
<tr>
<td><strong>Pre-Configured Network Zone System and Industrial Distribution Frame</strong></td>
<td></td>
</tr>
<tr>
<td>IAZ2436C</td>
<td>24&quot;x36&quot; Pre-configured IA zone enclosure with configured backplane, cable management and high voltage barrier</td>
</tr>
<tr>
<td>IAZ2424C</td>
<td>24&quot;x24&quot; Pre-configured zone enclosure</td>
</tr>
<tr>
<td>IAZ1214C</td>
<td>12&quot;x14&quot; Pre-configured zone enclosure</td>
</tr>
<tr>
<td>ZDF48-RA</td>
<td>Pre-Config wall/column mount Industrial Distribution Frame enclosure ready for 2 access and 2 distribution switches</td>
</tr>
<tr>
<td><strong>Control Panel</strong></td>
<td></td>
</tr>
<tr>
<td>UPS3024024015</td>
<td>Uninterruptible Power Supply (UPS), 35 Watts for 5 minutes, 24VDC in/out, DIN rail mount.</td>
</tr>
<tr>
<td>SD3EMI</td>
<td>EMI noise shield kit for 3'' height Panduit wiring duct</td>
</tr>
<tr>
<td>DRD33LG6</td>
<td>3'' height PanelMax DIN Rail Wiring Duct</td>
</tr>
<tr>
<td><strong>Cabling, Connectors and Pathways</strong></td>
<td></td>
</tr>
<tr>
<td>FODRX12Y</td>
<td>12-fiber MM OM3, 10 GbE, riser rated distribution cable</td>
</tr>
<tr>
<td>FI2D204</td>
<td>4-fiber MM OM2, Polymer Coated Fiber (PCF), LSZH, riser</td>
</tr>
<tr>
<td>FLCDHMIG</td>
<td>indoor Break-out</td>
</tr>
<tr>
<td>FSPD512</td>
<td>PCF LC duplex crimp fiber optic connector, OM1/OM2</td>
</tr>
<tr>
<td>FOPRX12Y</td>
<td>12-fiber OM3 (MM) interlocking riser rated armored cable</td>
</tr>
<tr>
<td>FLCDMXAQY</td>
<td>LC OM3/OM4 multimode duplex connector for 900µm</td>
</tr>
<tr>
<td>PUR6004BU-UY</td>
<td>Cat 6, solid copper, 4-pair, UTP, CMR Riser, PVC Jacket</td>
</tr>
<tr>
<td>IUC6CO4ABL-CEG</td>
<td>Cat 6, industrial copper stranded, 4-pair, U/UTP</td>
</tr>
<tr>
<td>ISP56688FA</td>
<td>Cat 6A, industrial field term, RJ45 plug</td>
</tr>
<tr>
<td>ISFCH5C02ARD-XG</td>
<td>Cat 5e, industrial copper stranded, 2-pair, SF/UTP, CM, 600V, 1000V</td>
</tr>
<tr>
<td>ICAM12DRJ5S</td>
<td>Industrial Panel Mount M12 D-Code Female to RJ45 Adapter</td>
</tr>
<tr>
<td>ISP5E44MFA</td>
<td>Industrial Field Attachable M12 D-Code Male Plug</td>
</tr>
<tr>
<td>ISTPHCH1MBL</td>
<td>600 volt rated, Cat 5e patch cord, 1 meter</td>
</tr>
<tr>
<td>JP2SBC50-L20</td>
<td>J-Hook with screw-on beam clamp</td>
</tr>
</tbody>
</table>

### About this Configuration

Panduit has the complete end-to-end products and solutions to deploy a robust, secure and future ready industrial network. The 5 IN's group Panduit products, addressing the different aspects of a network deployment.

**IN-ROOM (Micro Data Center)**

The Micro Data Center (MDC) is the hub of a network deployment containing servers, switches, and other active gear.
- Preconfigured Micro Data Center Cabinet with cabling
- Different size Network/server racks and cabinets
- Patching and Cable Management
- Network physical security
- Identification and Color code
- Grounding and Power

**IN-ROUTE**

Solutions and products to connect MDC, switches, controllers and other active gear.
- Pre-configured Zone Enclosure
- Pre-configured Industrial Distribution Frame (IDF)
- Industrial pathways like Wyr-Grid Cable Tray and J Hooks
- Full line of Copper and Fiber Cable

**IN-PANEAL**

A full set of products to accommodate any panel design for both new and retrofits especially sensitive network cabling.
- Cable Management/Protection
- Connectors and Terminals
- EMI Protection
- Space Optimization
- Networking
- Labeling

**IN-FIELD**

Products to manage cabling in a harsh environment.
- Pre-Configured Zone Enclosure
- Harsh cable protection/bundling
- Harsh connectors/ Terminals
- Safety/Identification

**IN-FRASSTRUCTURE**

Products to distribute power and grounding including safety and identification.
- Power terminals
- Ground distribution
- LOTO/Labeling

### For More Information

For more information, contact your local distributor or Panduit Sales rep.

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iai@panduit.com