Model: EIR-Extend
Industrial DIN Rail Mounted
Ethernet Extender

Features

- Redundant Power Inputs
- Wide Operating Temperature
- Extend Ethernet up to 6232 ft (1.9 km) over standard copper wires
- Ethernet Port: RJ-45 10/100Mbps Full/Half-duplex, Auto-negotiation / Auto-MDI/MDX
- Ethernet Extend Port: RJ-11 50Mbps Full Duplex VDSL

Functional Description

The EIR-EXTEND is a point-to-point Ethernet Extender designed to operate in harsh environments. Functioning at temperatures from -40 to 75º C, it has been tested for functional operation up to 85º C. Using existing copper wire runs, it allows the extension of Ethernet signals. The EIR-EXTEND is the perfect solution for installing Ethernet connectivity on the factory floor. Used in pairs, configuration is easy. Configure one unit as the local device, and the other one as the remote device. External power supplies are required (not included).

Ordering Information

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIR-Extend</td>
<td>DIN Rail Mount Ethernet Extender</td>
</tr>
<tr>
<td>Accessories</td>
<td></td>
</tr>
<tr>
<td>MDR-40-24</td>
<td>DIN Rail Mount Power Supply, 24 VDC, 1.7A</td>
</tr>
</tbody>
</table>
### Specifications

#### Technology

| Standards: | 802.3 10BaseT  
|            | 802.3u 100BaseTx  
|            | 802.3x  
| Protocol  | Ethernet over VDSL  
| Processing | Half-duplex: backpressure  
|            | Full-duplex: 802.3x  

#### Ethernet Interface

| Port       | RJ-45, 10/100BaseTX  
| Speed      | Full/Half Duplex  
| Protocol   | Auto-Negotiation  
| Cable      | CAT 5  

| Standards: | 802.3u 100BaseTx  
| Protocol   | Auto-MDI/MDX  
| Speed      | 10/100 Mbps  
| Distance   | 320 ft (100 m)  

#### Power

| Input Voltage | 12 VDC – Power Jack  
| Input Current | 350 mA (Power Jack)  
|              | 175 mA (Terminal Block)  
| Power Consumption | 4.2 W Max  

#### Extender Interface

| Port       | RJ-11 or Terminal Block  
| Speed      | Up to 50 Mbps  
| Distance   | Up to 6,232 ft (1.9 km)  
| Cable      | 24 AWG Copper Pair  

#### Environment

| Operating Temp | -40 to 75º C  
| Storage Temp   | -40 to 85º C  
| Op Humidity    | 0 to 95% Non-condensing  

#### Mechanical

| Case         | DIN Mount IP30 Aluminum  
| Dimensions   | 1.97 x 4.33 x 5.35 in  
|             | 5.0 x 11.0 x 13.6 cm  
| Weight       | 1.76 lbs (0.8 kg)  

### LED Chart

<table>
<thead>
<tr>
<th>LED</th>
<th>Speed</th>
<th>Distance</th>
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<tbody>
<tr>
<td>1</td>
<td>Green</td>
<td>1 Mbps</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>3 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6232 ft (1.9 km)</td>
</tr>
<tr>
<td>2</td>
<td>Green</td>
<td>5 Mbps</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>10 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5249 ft (1.6 km)</td>
</tr>
<tr>
<td>3</td>
<td>Green</td>
<td>15 Mbps</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>20 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3936 ft (1.2 km)</td>
</tr>
<tr>
<td>4</td>
<td>Green</td>
<td>25 Mbps</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>30 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2624 ft (0.8 km)</td>
</tr>
<tr>
<td>5</td>
<td>Green</td>
<td>40 Mbps</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>50 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1968 ft (0.6 km)</td>
</tr>
</tbody>
</table>

### Regulatory Approvals

| Emissions | FCC Par 15, Class A  
| CE        | EN61000-6-(2,3)  
|           | EN6100004-(2,3,4,5,6,8,11)  