



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 75° C, it has been tested for functional operation up to 85° 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

Model Number	Description
EIR-Extend	DIN Rail Mount Ethernet Extender
Accessories	
MDR-40-24	DIN Rail Mount Power Supply, 24 VDC, 1.7A

Specifications

Technology	
Standards:	802.3 10BaseT 802.3u 100BaseTx 802.3x Ethernet over VDSL
Protocol	Transparent to higher level Protocols
Processing	Half-duplex: backpressure Full-duplex: 802.3x

Ethernet Interface	
Port	RJ-45, 10/100BaseTX Full/Half Duplex Auto-Negotiation Auto-MDI/MDX
Speed	10/100 Mbps
Distance	320 ft (100 m)
Cable	CAT 5

Power	
Input Voltage	12 VDC – Power Jack 12 – 30 VDC Terminal Block
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
*see LED Chart for distance/speed combinations	

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)

Environment	
Operating Temp	-40 to 75° C Tested to 85° C
Storage Temp	-40 to 85° C
Op Humidity	0 to 95% Non-condensing

LED Chart

	LED	Speed	Distance
1	Green	1 Mbps	6232 ft (1.9 km)
	Amber	3 Mbps	5904 ft (1.8 km)
2	Green	5 Mbps	5249 ft (1.6 km)
	Amber	10 Mbps	4593 ft (1.4 km)
3	Green	15 Mbps	3936 ft (1.2 km)
	Amber	20 Mbps	3280 ft (1.0 km)
4	Green	25 Mbps	2624 ft (0.8 km)
	Amber	30 Mbps	2296 ft (0.7 km)
5	Green	40 Mbps	1968 ft (0.6 km)
	Amber	50 Mbps	984 ft (0.3 km)

Regulatory Approvals

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