EIRM-EXTEND-8

Managed Hardened 8 port 10/100BASE-TX Ethernet Extender

Features

- Extends Ethernet communications up to 1900 meters
- Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- Ethernet Port: 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- > Ethernet Extender (RJ-11 and Terminal Block) Ports
- Proprietary " -ring" support for network redundancy; recovery time <15ms</p>
- IEEE802.1w RSTP, IEEE802.1S MSTP and IEEE802.1D STP compatible
- > IP Multicast Filtering through IGMP Snooping V1, V2 & V3
- Supports port-based VLAN and IEEE802.1Q VLAN Tagging and GVRP
- IEEE802.1p QoS with four priority queues
- > MAC-based Trunking with automatic link fail-over
- RS-232 console, Telnet, SSL/SSH, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management
- Supports IEEE802.1x Security
- Bandwidth Rate Control
- Per-port programmable MAC address locking
- Up to 24 Static Secure MAC addresses per port
- Port mirroring
- Full wire-speed forwarding rate
- Redundant power inputs with Terminal Block and DC Jack
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- Hardened aluminum case
- Supports NTP

Functional Description

Designed for rugged environments, the EIRM-EXTEND-8 series switch comes with eight 10/100BASE-TX plus two VDSL ports in one package. It efficiently extends 10/100 Ethernet circuits to over 300 meters (984 feet) at 50Mbps by using an existing pair of copper wire. Installation is easy with a single switch setting - one end is set for local and the other for remote. The EIRM-EXTEND-8 is used in pairs (compatible with other EIS, EIR and EIRM models) to extend Ethernet connectivity over existing voice grade copper wire.

The EIRM-EXTEND-8 functions at temperatures ranging from -40°C to 75°C (-40°F to 167°F) and is tested for functional operation @ -40°C to 85°C (-40°F to 185°F). The EIRM-EXTEND-8 is fully managed via SNMP, Web Browser, Telnet or Console Port and is designed to integrate 10/100 Mbps networks into VDSL backbones. The EIRM-EXTEND-8 series supports advanced features such as 802.1Q VLAN, MAC-based Trunking, IP Multicast IGMP Snooping, Rapid Spanning Tree for Redundancy, QoS for priority queuing, and port mirroring. Users may choose among SNMP/RMON, Web browser, or Telnet for remote monitoring and configuration. It also supports rate control, which allows users to set the maximum bandwidth in each port individually.



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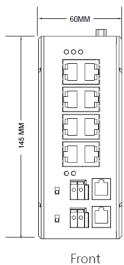


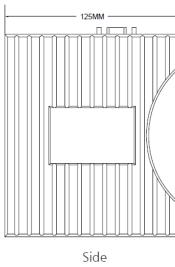
Ordering Information

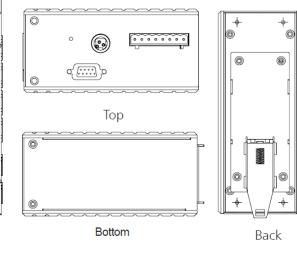
Model Number	Ethernet Ports	Max Distance	Max Speed	VDSL Ports	Temp	Mounting
EIRM-EXTEND-8	8	1900m	50Mbps	Two RJ-11 and Terminal Block	-40 to 75C	Din, Panel (EIRPMKT)

Accessories

Model No.	Description
MDR-20-24	DIN rail mount power supply 24VDC, 1.0 A output power
MDR-40-24	DIN rail mount power supply 24VDC, 1.7 A output power
	Hardened AC power adapter, 12 VDC, 36W, US plug (for EIR and
PS12VDC3P	EIRM series)
EIRPMKT	Panel Mount Kit For Switches
C5UMB3FBG	Ethernet Category 5e patch cord, 3 ft. (0.9m), beige
C5UMB7FBG	Ethernet Category 5e patch cord, 7 ft. (0.9m), beige









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Specifications

Technolog

Technology								
Standards:		IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, Ethernet over VDSL, IEEE802.3x, IEEE802.1p, IEEE802.1Q, IEEE802.1w, IEEE802.1x						
Forward and Filtering Rate:		14,880pps for 10Mbps 148,810pps for 100Mbps						
Packet Buffer Me	emory:	2M bits						
Processing Type:		Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control						
Address Table Size:		8192 MAC addresses						
Ethernet Por	ts							
RJ45 Ports:		Eight Ethernet 10/100BASE-TX Full/Half-duplex Auto-Negotiation, Auto-MDI/MDIX						
RJ45 Distance: LED Indicators		100 meters (328ft) LNK/ACT, Duplex						
Ethernet VDS	SL Extender							
Port: Speed: Distance: Cable:	Two RJ-11 and Ter 1/3/5/10/15/20/25/3 1900meters (6,232f Telephone line 24 A 1- pair wire) or larg	30/40/50Mbps ft.) AWG (0.5mm diameter,						
Console Por								
One DB9 RS23	32 port							
Power) Indica				
Input Voltage: Power Use: Input Connectic	12 to 48VDC 11W Max. 0.92A@12VDC, 0.46A@24VDC on (Terminal Block);12VDC (DC Jack)		Per input: Power Status LED Per Port: 10/100TX: Link/Activity, Full-duplex Line: Error, Link, Local, Remote					
Protection: Reverse Polarity Protection				LED	Speed	Distance		
Mechanical	Mechanical			Green	1 Mbps	1,900m(6,232	ft.)	
	Aluminum IP30	W) x 125mm (D) x 145mm (H)		Amber	3 Mbps	1,800m(5,904	ft.)	
				Green	5 Mbps	1,600m(5,249	ft.)	
	(2.36" (W) x 4.92" (D) x 5.7" (H)) Installation: Din Rail or optional Panel mount			Amber		1,400m(4,593	ft.)	
motaliation			3	Green	15Mbps	1,200m(3,936	ft.)	
				Amber		1,000m(3,280	ft.)	
			4	Green	25Mbps	800m (2,624	ft.)	
					30Mbps	700m (2,296		
Environmental			5	Green	40Mbps	600m(1,968		
Op. Temperature: -40°C to 75°C					50Mbps	300m (984		
Storage Temp:	(-40°F to 167°F) Tested @ -40°C to 85°C (-40°F to 185°F) p: -40°C to 85°C (-40°F to 185°F)		Note: All speed selections are Symmetrical on the DSL and Full-duplex on Ethernet.					
Op. Humidity: MTBF	5% to 95% (r 844,028.71	non condensing)						

Alarm Contact: One relay output with current 1A@24VDC



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Regulatory Approvals:

- ISO: Manufactured in an ISO9001 facility
- EMI: FCC Part 15, Class A VCCI, Class A EN61000-6-4
 - EN55022
 - EN61000-3-2
 - EN61000-3-3

EMS:

- EN61000-6-2
 - EN61000-4-2 (ESD Standards)
 - Contact: + / 6KV; Criteria B
 - Air: + / 8KV; Criteria B
- EN61000-4-3 (Radiated RFI Standards)
 - 10V/m, 80 to 3000MHz; 80% AM Criteria A
- EN61000-4-4 (Burst Standards)
 - Signal Ports: + / 4KV; Criteria B
 - D.C. Power Ports: + / 4KV; Criteria B
- EN61000-4-5 (Surge Standards)
 - Signal Ports: + / 1KV; Line-to-Line; Criteria B
- D.C. Power Ports: + / 0.5KV; Line-to-earth; Criteria B
- EN61000-4-6 (Induced RFI Standards)
 - Signal Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A
 - D.C. Power Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A
- EN61000-4-8 (Magnetic Field Standards)
 - 30A/m @ 50, 60Hz; Criteria A

Environmental Test Compliance:

IEC60068-2-6 Fc (Vibration Resistance)

- 5g @ 10~150Hz, Amplitude 0.35mm (Operation/Storage/Transport)
- IEC60068-2-27 Ea (Shock)
 - 25g @ 11ms (Half-Sine Shock Pulse; Operation)
- 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) IEC60068-2-32 Ed (Free Fall)
 - 1M (3.281ft.)

NEMA TS1/2 Environmental requirements for Traffic control equipment



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