ED3175

Managed Hardened 8-port 10/100BASE-TX Switch with 2-port Copper Pair Extender

Value

α-RING · Extended Temperature · Fanless

- Provides flexibility of 8 10/100BASE-TX plus 2 extender ports in one package
- Wide temp range for extreme environments
- Fanless design to minimize maintenance hassles

Extender port

Features

- Ethernet Port: 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto- MDI/MDIX
- Ethernet Extender (RJ-11 and Terminal) Port: Symmetrical on the VDSL, High-speed, Full-duplex 50Mbps communications link over exiting copper telephone wire
- Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- Supports α-ring and RSTP/MSTP/STP for Ethernet redundancy
- 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, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management

- Supports Command Line Interface in RS-232 Console
- Supports IEEE802.1x Security
- Bandwidth Rate Control
- Per-port programmable MAC address locking
- Up to 24 Static Secure MAC addresses per port
- Port mirroring
- Supports NTP
- 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- -40°C to +75°C (-40°F to 167°F) operating temperature range, tested for functional operation @ -40°C to +85°C (-40°F to 185°F)

Ordering Information

ED3175-82B   Managed Hardened 8-port 10/100BASE-TX Switch with 2-port Copper Pair Extender

Power Supply : (Optional)
    *Option A - Terminal Block power supply(s), part numbers:
    DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X
    (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP
    **Option B - DC Jack power supplies kit(s), part numbers:
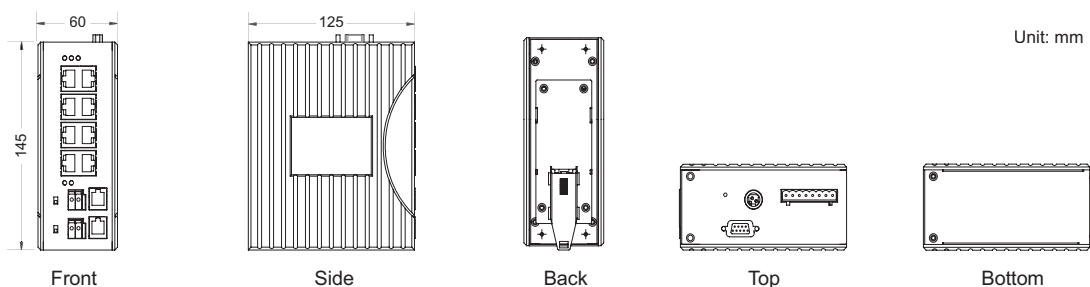   1-136044-X
    (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

Installation Type : DIN-Rail (mounting kit included), Optional Rack Mount kits (KR-BK71000) and Panel Mount kits (KP-AA96-480) are available for order

* All specifications and photos are subject to change without notice.

Specifications

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 Memory	2M bits
Processing Type	Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	8192 MAC addresses
Power	
Input	Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	11W Max. 0.92A @ 12VDC, 0.46A @ 24VDC
Overload Current Protection	Present
Reverse Polarity Protection	Present
Mechanical	
Casing	Aluminum case IP 30
Dimensions	60mm (W) x 125mm (D) x 145mm (H) (2.36" (W) x 4.92" (D) x 5.7" (H))
Weight	1.1Kg (2.42lbs.)
Installation	DIN-Rail
Interface	
Ethernet Port	10/100BASE-TX: 8 ports
Ethernet Extender Ports	J-11 and Terminal Block port : 2 ports Speed: 1/3/5/10/15/20/25/30/40/50Mbps Distance

		Speed	Distance
1		1Mbps	1,900m (6,232 ft.)
2		3Mbps	1,800m (5,904 ft.)
3		5Mbps	1,600m (5,249 ft.)
4		10Mbps	1,400m (4,593 ft.)
5		15Mbps	1,200m (3,936 ft.)
6		20Mbps	1,000m (3,280 ft.)
7		25Mbps	800m (2,624 ft.)
8		30Mbps	700m (2,296 ft.)
9		40Mbps	600m (1,968 ft.)
10		50Mbps	300m (984 ft.)

Console Port	Port: One DB9 RS-232 port

LED Indicators	Per Unit: Power Status (Power 1, Power 2, Power 3) Per Port: 10/100TX: Link/Activity, Speed Extender Port: Link
DIP switch	One DIP Switch: Local (CO) or Remote (CPE)
Alarm Contact	One relay output with current 1A @ 24VDC
Environment	
Operating Temperature	-40°C to +75°C (-40°F to 167°F) Tested @ -40°C to +85°C (-40°F to 185°F)
Storage Temperature	-40°C to +85°C (-40°F to 185°F)
Ambient Relative Humidity	5% to 95% (non-condensing)
Regulatory Approvals	
ISO	Manufactured in an ISO9001 facility
EMI	*FCC Part 15, 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 1000MHz; 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.)

Dimensions

Unit: mm

Front   Side   Back   Top   Bottom