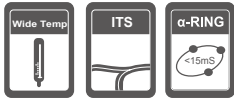


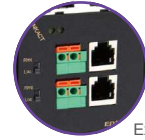
ED3175 Series

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



Value

- › 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

Fanless

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 up to 100Mbps communications link over existing 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



Specifications

Technology	
Standards	<ul style="list-style-type: none"> IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x, IEEE802.1p, IEEE802.1Q, IEEE802.1w, IEEE802.1x
Forward and Filtering Rate	<ul style="list-style-type: none"> 14,880pps for 10Mbps 148,810pps for 100Mbps
Packet Buffer Memory	<ul style="list-style-type: none"> 2M bits
Processing Type	<ul style="list-style-type: none"> Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	<ul style="list-style-type: none"> 8192 MAC addresses

Power	
Input	<ul style="list-style-type: none"> Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	<ul style="list-style-type: none"> 11W Max. 0.92A @ 12VDC, 0.46A @ 24VDC
Overload Current Protection	<ul style="list-style-type: none"> Present
Reverse Polarity Protection	<ul style="list-style-type: none"> Present

Mechanical	
Casing	<ul style="list-style-type: none"> Aluminum case IP 30
Dimensions	<ul style="list-style-type: none"> 60mm (W) x 125mm (D) x 145mm (H) (2.36" (W) x 4.92" (D) x 5.7" (H))
Weight	<ul style="list-style-type: none"> 1.1Kg (2.42lbs.)
Installation	<ul style="list-style-type: none"> DIN-Rail

Interface																																		
Ethernet Port	<ul style="list-style-type: none"> 10/100BASE-TX: 8 ports 																																	
Ethernet Extender Ports	<ul style="list-style-type: none"> J-11 and Terminal Block port : 2 ports Speed: 1/3/5/10/15/20/25/30/40/50Mbps Distance <table border="1"> <thead> <tr> <th></th> <th>Speed</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1Mbps</td> <td>1,900m (6,232 ft.)</td> </tr> <tr> <td>2</td> <td>3Mbps</td> <td>1,800m (5,904 ft.)</td> </tr> <tr> <td>3</td> <td>5Mbps</td> <td>1,600m (5,249 ft.)</td> </tr> <tr> <td>4</td> <td>10Mbps</td> <td>1,400m (4,593 ft.)</td> </tr> <tr> <td>5</td> <td>15Mbps</td> <td>1,200m (3,936 ft.)</td> </tr> <tr> <td>6</td> <td>20Mbps</td> <td>1,000m (3,280 ft.)</td> </tr> <tr> <td>7</td> <td>25Mbps</td> <td>800m (2,624 ft.)</td> </tr> <tr> <td>8</td> <td>30Mbps</td> <td>700m (2,296 ft.)</td> </tr> <tr> <td>9</td> <td>40Mbps</td> <td>600m (1,968 ft.)</td> </tr> <tr> <td>10</td> <td>50Mbps</td> <td>300m (984 ft.)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Cable: Telephone wire 24 AWG (Minimum 0.5mm diameter, 1-pair wire) 		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.)
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Console Port	<ul style="list-style-type: none"> Port: One DB9 RS-232 port 																																	

LED Indicators	<ul style="list-style-type: none"> Per Unit: Power Status (Power 1, Power 2, Power 3) Per Port: 10/100TX: Link/Activity, Speed Extender Port: Link
DIP switch	<ul style="list-style-type: none"> One DIP Switch: Local (CO) or Remote (CPE)
Alarm Contact	<ul style="list-style-type: none"> One relay output with current 1A @ 24VDC

Environment	
Operating Temperature	<ul style="list-style-type: none"> -40°C to 75°C (-40°F to 167°F) Tested @ -40°C to 85°C (-40°F to 185°F)
Storage Temperature	<ul style="list-style-type: none"> -40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	<ul style="list-style-type: none"> 5% to 95% (non-condensing)

Regulatory Approvals	
ISO	<ul style="list-style-type: none"> Manufactured in an ISO9001 facility
EMI	<ul style="list-style-type: none"> FCC Part 15, Class A EN61000-6-4 <ul style="list-style-type: none"> EN55022 EN61000-3-2 EN61000-3-3
EMS	<ul style="list-style-type: none"> EN61000-6-2 <ul style="list-style-type: none"> EN61000-4-2 (ESD Standards) <ul style="list-style-type: none"> Contact: + / 6KV Air: + / - 8KV EN61000-4-3 (Radiated RFI Standards) <ul style="list-style-type: none"> 10V/m, 80 to 1000MHz; 80% AM EN61000-4-4 (Burst Standards) <ul style="list-style-type: none"> Signal Ports: + / - 4KV D.C. Power Ports: + / - 4KV EN61000-4-5 (Surge Standards) <ul style="list-style-type: none"> Signal Ports: + / - 1KV; Line-to-Line D.C. Power Ports: + / - 0.5KV; Line-to-earth EN61000-4-6 (Induced RFI Standards) <ul style="list-style-type: none"> Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM EN61000-4-8 (Magnetic Field Standards) <ul style="list-style-type: none"> 30A/m @ 50, 60Hz
Environmental Test Compliance:	<ul style="list-style-type: none"> IEC60068-2-6 Fc (Vibration Resistance) <ul style="list-style-type: none"> 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) IEC60068-2-27 Ea (Shock) <ul style="list-style-type: none"> 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) FED STD 101C Method 5007.1 (Free fall w/ package) <ul style="list-style-type: none"> -Tested with Cross Weight and Drop High standard table

Diagrams

Unit: mm

