

# EX33000/EX95000 Series

Unmanaged Industrial 16-port 10/100BASE Ethernet Switch



## Value

- Flexible configuration for 16-port 10/100BASE Ethernet ports
- Redundant 12 - 48VDC power inputs
- Versatile mounting options

## Features

- Provides 14 10/100BASE-TX ports plus 2 100BASE-FX ports
- Supports 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Redundant power inputs (12 - 48VDC) with Terminal Block and DC Jack (12VDC)
- Alarms for power failure by relay output
- -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)
- Provides DIN-rail, Panel or Rack mounting
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment

## Ordering Information

EX33160/EX95160-00Z	16-port 10/100BASE-TX Industrial Unmanaged Ethernet Switch
EX33151/EX95151-X0Z	15-port 10/100BASE-TX + 1-port 100BASE-FX Industrial Unmanaged Ethernet Switch
EX33142/EX95142-X0Z	14-port 10/100BASE-TX + 2-port 100BASE-FX Industrial Unmanaged Ethernet Switch

### 100FX Fiber Options :

- (X) = 1 : Multi Mode (SC) - 2Km  
 2 : Multi Mode (ST) - 2Km  
 A : Single Mode (SC) - 20Km  
 B : Single Mode (SC) - 40Km  
 H : Single Mode (ST) - 20Km  
 6 : Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 2Km  
 7 : Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 2Km  
 8 : Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 5Km  
 9 : Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 5Km  
 P : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 20Km  
 Q : Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 20Km  
 R : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 40Km  
 S : Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 40Km  
 \*More 100FX Fiber options also available upon request.

### Power Input Interface :

(Z) = B : Terminal Block & DC Jack

### Power Supply : (Optional)

\*The Terminal Block type external power supply are not included. Please order the following part numbers, as required: 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

\*\*The external power adapter and power cord are not included. Please order the following part numbers, as required: 41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

### Installation Type : DIN Rail (mounting kit is included)

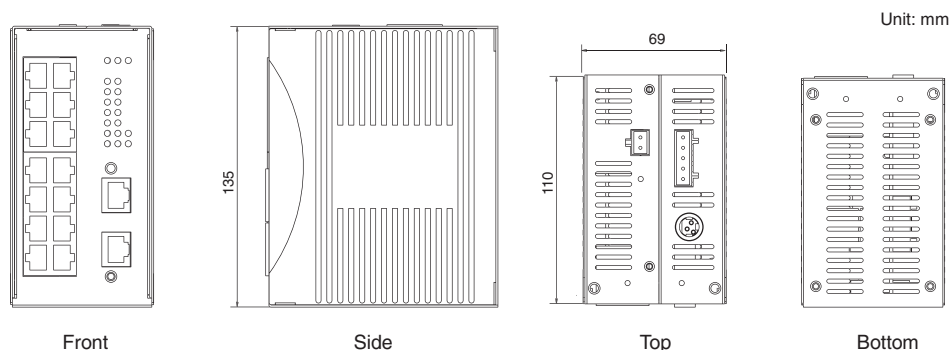
Optional Panel mount kit, part number: KP-AA96-480

Optional Rack mount kit, part number: KR-BK43-400

## Specifications

Technology	
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASETX/100BASE-FX, IEEE802.3x
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps
Packet Buffer Memory	1.625M bits
Processing Type	Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	4096 MAC addresses
Latency	Less than 10us
Power	
Input	Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	9.6W Max., 0.8A @ 12VDC, 0.4A @ 24VDC, 0.2A @ 48VDC
Overload Protection	Present
Reverse Polarity Protection	Present
Mechanical	
Casing	Metal case IP30
Dimensions	69mm (W) x 110mm (D) x 135mm (H) (2.72" (W) x 4.33" (D) x 5.31" (H))
Weight	0.87Kg (1.92lbs.)
Installation	DIN-Rail (Top hat type 35mm), Panel, Rack Mounting
Interface	
Ethernet Port	10/100BASE-TX: 16, 15 or 14 ports 100BASE-FX: 0, 1 or 2 ports
LED Indicators	Per Unit: Power Status (Power 1, Power 2, Power 3) Per Port: 10/100TX, 100FX: Link/Activity
Alarm Contact	One relay output with current 1A @ 24VDC
Environment	
Operating Temperature	-10°C to +60°C (14°F to 140°F) (EX33000) -40°C to +75°C (-40°F to 167°F) (EX95000)
Storage Temperature	-40°C to +85°C (-40°F to 185°F)
Ambient Relative Humidity	5% to 95% (non-condensing)

## Dimensions



## Regulatory Approvals

ISO	Manufactured in an ISO9001 facility
Safety	UL508
EMI	*FCC Part 15, Class A, VCCI *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 3V/m, 1400 to 2000MHz; 80% AM Criteria A 1V/m, 2000 to 2700MHz; 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	*IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport)
Compliance	*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.)