

EX43000 Series

Unmanaged Industrial 8-port 10/100BASE Ethernet Switch



- Flexible 10/100BASE-TX and FX port configurations
- Alarms for power failure thru relay output



Features

- Provides flexibility of 8 Ethernet ports that configure in combinations of copper and fiber optic interfaces
- Redundant power inputs with Terminal Block or DC Jack
- -20°C to 60°C (-4°F to 140°F) and is tested for functional operation @ -30°C to 70°C (-22°F to 158°F)
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- Alarms for power failure by relay output

Ordering Information

EX43008-00-I-P	8-port 10/100BASE-TX Industrial Unmanaged Ethernet Switch
EX43018-XY-I-P	8-port 10/100BASE-TX + 1-port 100BASE-FX Industrial Unmanaged Ethernet Switch
EX43026-XY-I-P	6-port 10/100BASE-TX + 2-port 100BASE-FX Industrial Unmanaged Ethernet Switch
EX43044-XY-I-P	4-port 10/100BASE-TX + 4-port 100BASE-FX Industrial Unmanaged Ethernet Switch

100FX Fiber Options :

(XY) = 1A : Multi Mode (SC) - 2Km

1B : Multi Mode (ST) - 2Km

2A : Single Mode (SC) - 20Km

2B : Single Mode (SC) - 40Km

2D : Single Mode (ST) - 20Km

1H : Multi Mode (SC) WDM -TX: 1310nm/RX:1550nm - 2Km

1J : Multi Mode (SC) WDM -TX: 1310nm/RX:1550nm - 5Km

2E : Single Mode (SC) WDM -TX:1310nm/RX:1550nm - 20Km

2F : Single Mode (SC) WDM -TX:1310nm/RX:1550nm - 40Km

1I : Multi Mode (SC) WDM -TX: 1550nm/RX:1310nm - 2Km

1K : Multi Mode (SC) WDM -TX: 1550nm/RX:1310nm - 5Km

2G : Single Mode (SC) WDM -TX:1550nm/RX:1310nm - 20Km

2H : Single Mode (SC) WDM -TX:1550nm/RX:1310nm - 40Km

*More 100FX Fiber options also available upon request.

Installation Type :

(I) = 1 : DIN Rail (mounting kit is included)

Optional Panel mount kit, part number: [KP-AA96-480](#)

Optional Rack mount kit, part number: [KR-BK43-400](#)



Power Connector Options :

(P) = A : Terminal Block* / B : DC Jack**

*Option A - 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

**Option B - 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

Specifications

Technology	
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3x
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps
Packet Buffer Memory	768K bits
Processing Type	- Store-and-Forward - Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	2048 MAC addresses

Power	
Input	Input Voltage: 12 to 30VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	4.8W Max. 0.38A @ 12VDC, 0.2A @ 24VDC
Reverse Polarity Protection	Present

Mechanical	
Casing	- Aluminum case - IP30
Dimensions	50mm (W) x 125mm (D) x 135mm (H) (1.97" (W) x 4.92" (D) x 5.31" (H))
Weight	0.8Kg (1.76lbs.)
Installation	DIN-Rail (Top hat type 35mm), Panel, Rack Mounting

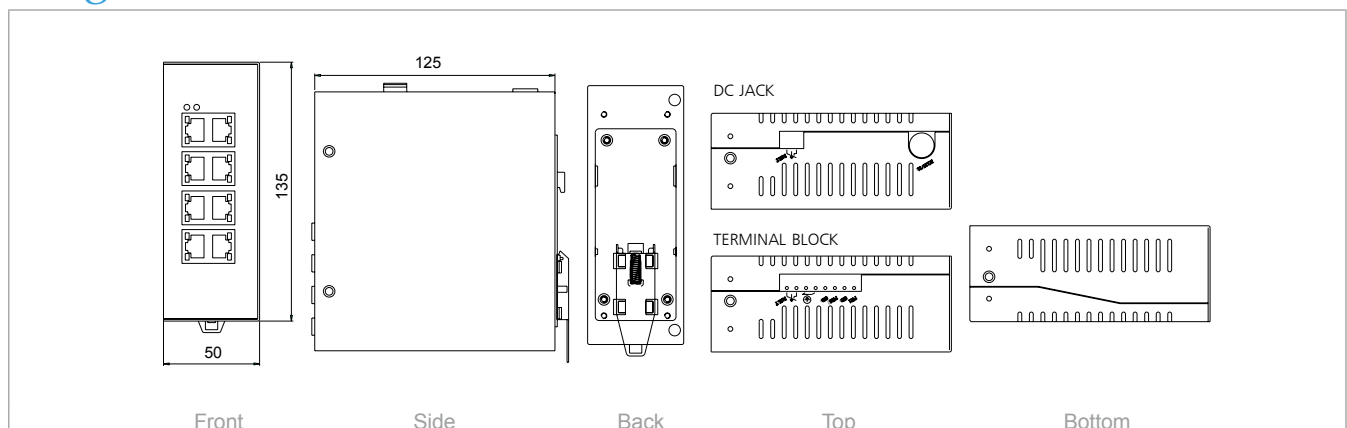
Interface	
Ethernet Port	10/100BASE-TX: 8, 6 or 4 ports 100BASE-FX: 0, 1, 2 or 4 ports
LED Indicators	- Per Unit: Power Status (Power 1, Power 2) - Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)
Alarm Contact	One relay output with current 1A @ 24VDC

Environment	
Operating Temperature	-20°C to 60°C (-4°F to 140°F) - Tested @ -30°C to 70°C (-22°F to 158°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
Safety	UL60950-1
EMI	- FCC Part 15, Class A - EN61000-6-3 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	- EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 4KV Air: + / - 8KV - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM 3V/m, 1400 to 2000MHz; 80% AM 1V/m, 2000 to 2700MHz; 80% AM - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV D.C. Power Ports: + / - 4KV - EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line D.C. Power Ports: + / - 0.5KV; Line-to-Earth - EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz
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) - FED STD 101C Method 5007.1 (Free fall w/ package) -Tested with Cross Weight and Drop High standard table

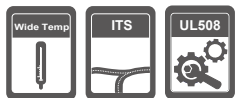
Diagrams

Unit: mm



EX94000 Series

Unmanaged Hardened 5/8-port 10/100BASE Ethernet Switch



Value

- Redundant power inputs
- Versatile mounting options
- Wide operating temperature
- UL ISA12.12.01 Class I Division 2 certified for hazardous locations

Fanless

Features

- Provides flexibility of 5 or 8 Ethernet ports
- Supports 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Redundant power inputs(12 - 48VDC) with Terminal Block or DC Jack (12VDC)
- Alarms for power and port failure by relay output
- -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)
- Provides DIN-rail or panel mounting
- Complies with NEMA TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- UL ISA12.12.01 Class I Division 2 certified for hazardous locations

Ordering Information

EX94008-00-I-P	8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX94018-XY-I-P	8-port 10/100BASE-TX + 1-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94026-XY-I-P	6-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94044-XY-I-P	4-port 10/100BASE-TX + 4-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94005-00-I-P	5-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX94014-XY-I-P	4-port 10/100BASE-TX + 1-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94024-XY-I-P	4-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Unmanaged Ethernet Switch

100FX Fiber Options :

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1J : Multi Mode (SC) WDM-TX: 1310nm/RX:1550nm - 5Km

2E : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 20Km

2F : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 40Km

1I : Multi Mode (SC) WDM-TX: 1550nm/RX:1310nm - 2Km

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*More 100FX Fiber Options also available upon

Installation Type :

(I) = 1 : DIN Rail (mounting kit is included)

Optional Panel mount kit, part number: [KP-AA96-480](#)



Power Connector Options :

(P) = A : Terminal Block* / B : DC Jack**

*Option A - 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=1,2,3,4

**Option B - 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

Specifications

Technology	
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3x
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps
Packet Buffer Memory	768K bits
Processing Type	- Store-and-Forward - Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	2048 MAC addresses

Power	
Input	Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	6.3W Max. 0.48A @ 12VDC, 0.24A @ 24VDC 0.13A @ 48VDC
Overload Current Protection	Present
Reverse Polarity Protection	Present

Mechanical	
Casing	Aluminum case
Dimensions	50mm (W) x 110mm (D) x 135mm (H) (1.97" (W) x 4.33" (D) x 5.31" (H))
Weight	0.8Kg (1.76lbs.)
Installation	DIN-Rail (Top hat type 35mm), Panel Mounting

Interface	
Ethernet Port	10/100BASE-TX: 8, 6, 5 or 4 ports 100BASE-FX: 0, 1, 2 or 4 ports
LED Indicators	- Per Unit: Power Status (Power 1, Power 2, Fault) - Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)
Alarm Contact	One relay output with current 1.5A @ 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
Safety	- UL508 - Hazardous locations: UL ISA12.12.01 Class I Div. 2
EMI	- FCC Part 15, Class A, VCCI - EN61000-6-3 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	- EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 4KV Air: + / - 8KV - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM 3V/m, 1400 to 2000MHz; 80% AM 1V/m, 2000 to 2700MHz; 80% AM - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV D.C. Power Ports: + / - 4KV - EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line D.C. Power Ports: + / - 0.5KV; Line-to-Earth - EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz
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) - FED STD 101C Method 5007.1 (Free fall w/ package) -Tested with Cross Weight and Drop High standard table

Diagrams

Unit: mm

