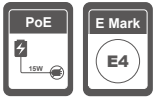


EX34000 Series

Unmanaged Industrial 8-port 10/100BASE PoE Ethernet Switch



Value

- › E Mark certificated for in-vehicle applications
- › IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- › Redundant power inputs with Terminal Block and DC Jack
- › DIN- Rail, Panel, or Rack Mounting
- › Alarms for power and port link failure by relay output



Features

- › Provides flexibility of 8 Ethernet ports that configure in combinations of copper and fiber optic interfaces
- › -10°C to 60°C (-14°F to 140°F) and is tested for functional operation @ -20°C to 70°C (-4°F to 158°F)
- › Port1 - 4 support IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- › Provides DIN- Rail, Panel, or Rack Mounting
- › Alarms for power and port link failure by relay output
- › Redundant power inputs with Terminal Block and DC Jack
- › Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- › 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX

Ordering Information

EX34080-00Z	8-port 10/100BASE-TX Industrial Unmanaged PoE Ethernet Switch
EX34071-X0Z	7-port 10/100BASE-TX + 1-port 100BASE-FX Industrial Unmanaged PoE Ethernet Switch
EX34062-X0Z	6-port 10/100BASE-TX + 2-port 100BASE-FX Industrial Unmanaged PoE Ethernet Switch

100FX Fiber Options :

- (X) = 1 : Multi Mode (SC) - 2Km
 2 : Multi Mode (ST) - 2Km
 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

- A : Single Mode (SC) - 20Km
 B : Single Mode (SC) - 40Km
 H : Single Mode (ST) - 20Km
 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)

*Option A - The Terminal Block type external power supply are not included. Please order the following part numbers, as required: [DR-120-48](#)

**Option B - The external power adapter and power cord are not included. Please order the following part numbers, recommend for indoor use, as required: [AS-120P-48](#)

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	<ul style="list-style-type: none"> IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3x, IEEE802.3af
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"> 1M 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"> 1024 MAC addresses

Power	
Power Input	<ul style="list-style-type: none"> Redundant power inputs: Terminal Block: 47 - 55VDC DC Jack: 47 - 55 VDC
Power Consumption	<ul style="list-style-type: none"> Device: Max. 10W (without PoE) PoE power budget (depends on power input): 61.6W Max.
PoE Power Output	<ul style="list-style-type: none"> Port 1 to 4 IEEE802.3af: up to 15.4W/port, 47 - 55VDC, 350mA Max

- Supports overload current protection
- Supports reverse polarity protection

Mechanical	
Casing	<ul style="list-style-type: none"> Aluminum case IP30
Dimensions	<ul style="list-style-type: none"> 62mm (W) x 110mm (D) x 135mm (H) (2.44" (W) x 4.33" (D) x 5.31" (H))
Weight	<ul style="list-style-type: none"> 1Kg (2.2lbs.)
Installation	<ul style="list-style-type: none"> DIN-Rail (Top hat type 35mm), Panel, Rack Mounting

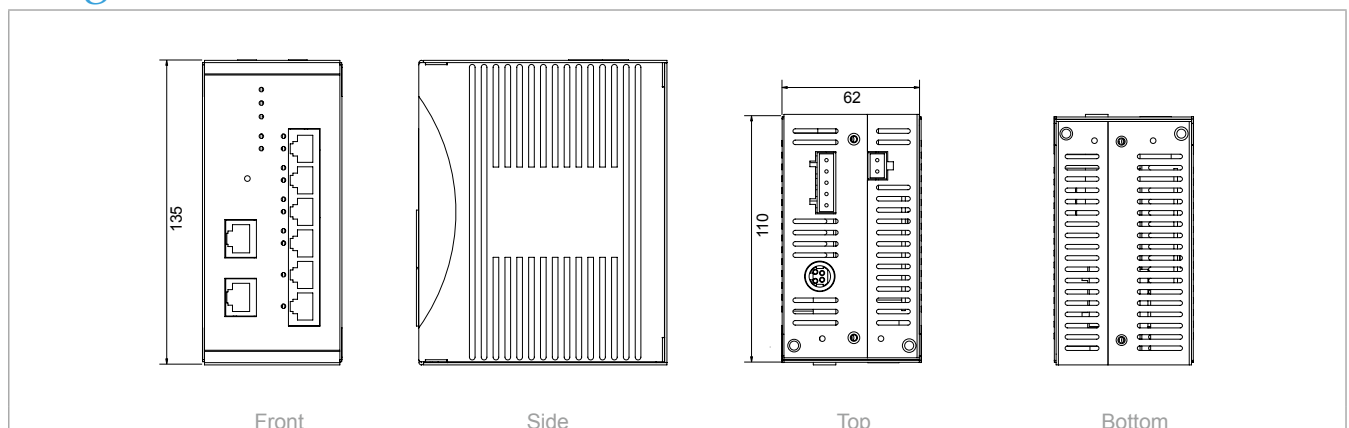
Interface	
Ethernet Port	<ul style="list-style-type: none"> 10/100BASE-TX: 8, 7 or 6 ports 100BASE-FX: 0, 1 or 2 ports
LED Indicators	<ul style="list-style-type: none"> Per Unit: Power Status (Power 1, Power 2, Power 3) Per Port: 10/100TX, 100FX: Link/Activity
Alarm Contact	<ul style="list-style-type: none"> One relay output with current 1A @ 24VDC

Environment	
Operating Temperature	<ul style="list-style-type: none"> -10°C to 60°C (14°F to 140°F) Tested @ -20°C to 70°C (-4°F to 158°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, VCCI 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) 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	<ul style="list-style-type: none"> 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

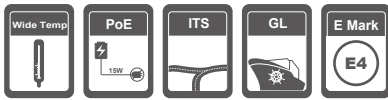
Diagrams

Unit: mm



EX45000 Series

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



Value

- › E Mark certificated for in-vehicle applications
- › IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- › GL certificate for maritime applications
- › Redundant power inputs with Terminal Block and DC Jack
- › DIN- Rail, Panel, or Rack Mounting
- › Alarms for power and port link failure by relay output



Features

- › Provides flexibility of 8 Ethernet ports that configure in combinations of copper and fiber optic interfaces
- › -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)
- › Port1 - 4 support IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- › Provides DIN- Rail, Panel, or Rack Mounting
- › Alarms for power and port link failure by relay output
- › Redundant power inputs with Terminal Block and DC Jack
- › Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- › Complies with NEMA TS2 Environmental requirements for Traffic control equipment
- › 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX

Ordering Information

EX45080-00Z	8-port 10/100BASE-TX Hardened Unmanaged PoE Ethernet Switch
EX45071-X0Z	7-port 10/100BASE-TX + 1-port 100BASE-FX Hardened Unmanaged PoE Ethernet Switch
EX45062-X0Z	6-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Unmanaged PoE Ethernet Switch

100FX Fiber Options :

- | | |
|---|---|
| (X) = 1 : Multi Mode (SC) - 2Km | A : Single Mode (SC) - 20Km |
| 2 : Multi Mode (ST) - 2Km | B : Single Mode (SC) - 40Km |
| 6 : Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 2Km | H : Single Mode (ST) - 20Km |
| 7 : Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 2Km | P : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 20Km |
| 8 : Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 5Km | Q : Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 20Km |
| 9 : Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 5Km | 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-120-48](#)

Installation Type : DIN Rail (mounting kit is included)

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



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



Specifications

Technology	
Standards	<ul style="list-style-type: none"> • IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3x, IEEE802.3af
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"> • 1M 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"> • 1024 MAC addresses

Power	
Power Input	<ul style="list-style-type: none"> • Redundant power inputs: Terminal Block: 47 - 55VDC DC Jack: 47 - 55VDC
Power Consumption	<ul style="list-style-type: none"> • Device: Max. 10W (without PoE) • PoE power budget (depends on power input): 61.6W Max.
PoE Power Output	<ul style="list-style-type: none"> • Port 1 to 4 • IEEE802.3af: up to 15.4W/port, 47 - 55VDC, 350mA Max
<ul style="list-style-type: none"> • Supports overload current protection • Supports reverse polarity protection 	

Mechanical	
Casing	<ul style="list-style-type: none"> • Aluminum case • IP30
Dimensions	<ul style="list-style-type: none"> • 68mm (W) x 110mm (D) x 135mm (H) (2.68" (W) x 4.33" (D) x 5.31" (H))
Weight	<ul style="list-style-type: none"> • 1Kg (2.2lbs.)
Installation	<ul style="list-style-type: none"> • DIN-Rail (Top hat type 35mm), Panel, Rack Mounting

Interface	
Ethernet Port	<ul style="list-style-type: none"> • 10/100BASE-TX: 8, 7 or 6 ports • 100BASE-FX: 0, 1 or 2 ports
LED Indicators	<ul style="list-style-type: none"> • Per Unit: Power Status (Power 1, Power 2, Power 3) • Per Port: 10/100TX, 100FX: Link/Activity
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, VCCI • EN55022, EN61000-3-2, EN61000-3-3
EMS	<ul style="list-style-type: none"> • 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
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Diagrams

Unit: mm

