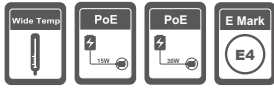


EX46100 Series

Web-Smart Hardened 8-port 10/100BASE High Power PoE Ethernet Switch



Value

- > E-Mark certified for in-vehicle applications
- > 4 IEEE802.3af+ compliant PoE ports with 30W/ea
- > Monitor each port power status thru the web interface



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
- > System, IP Configuration, Port-based VLAN and QoS Priority setting through the Web browser Interface
- > PoE (Power budget Control, PoE status, Port status) through the Web browser Interface
- > Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- > Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- > Alarms for power and port link failure by relay output
- > Redundant power inputs with Terminal Block and DC Jack

Ordering Information

| | |
|-------------|---|
| EX46180-00Z | 8-port 10/100BASE-TX Hardened Web-Smart PoE + Ethernet Switch |
| EX46171-X0Z | 7-port 10/100BASE-TX + 1-port 100BASE-FX Hardened Web-Smart PoE + Ethernet Switch |
| EX46162-X0Z | 6-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Web-Smart 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](#), [SDR-240-48](#)

**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 Panel 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 | |
|-----------------------------|---|
| Input | <ul style="list-style-type: none"> • Input Voltage: 15.4W 802.3af in 48VDC (47 - 55VDC) (Terminal Block/DC Jack) • 30W 802.3at in 55VDC (47 - 57VDC) (Terminal Block/DC Jack) |
| Power Consumption | <ul style="list-style-type: none"> • 72W Max. 1.5A @ 48VDC • 130W Max. 2.3A @ 55VDC |
| 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 • 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 (Green) • PoE: Link (Amber) |
| 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) |
| Web-Smart Function Operating Temperature | <ul style="list-style-type: none"> • -20°C to 75°C (-4°F to 167°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 |
| Safety | <ul style="list-style-type: none"> • UL508 (Pending) |
| 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: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B - EN61000-4-5 (Surge Standards) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 30A/m @ 50, 60Hz; Criteria A |
| 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) • IEC60068-2-32 Ed (Free Fall) <ul style="list-style-type: none"> 1M (3.281ft.) |

Diagrams

