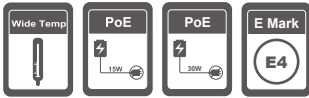


EX46100 Series

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 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

Unit: mm

