



**EtherWAN**

[migrate-ed9.hellosanta.tw/products/ex46100-series](http://migrate-ed9.hellosanta.tw/products/ex46100-series) EX46100 Series

EX46100 Series

Hardened Web-Smart 8-port 10/100BASE High Power PoE (4 x PoE) Ethernet Switch





## Overview

EtherWAN's EX46100 Series provides a hardened 8-port switching platform supporting IEEE 802.3af+ Power over Ethernet, high performance switching with robust features required for mission-critical and harsh environments where sustained connectivity is crucial.

The EX46100 Series is equipped with 4 10/100BASE-TX PoE ports, in combination with two 100FX Fiber options.

The IEEE 802.3af+ PoE ports provide up to 30W/port with a total power budget of 120W, making the switch truly versatile for connecting with PoE Powered Devices (PD) with different bandwidth and power consumption requirements such as outdoor PTZ dome cameras, wireless access points, and way-side communication devices.

Users are able to access management features such as QoS based on 802.1p, DSCP, and IP precedence. With the hardened specifications, the EX46100 Series is designed to operate at -40 to 75°C in harsh environments where high ESD, shock and vibration may be present.

EtherWAN — "When Connectivity is Crucial."

## Spotlight

### Hardened Grade

» Supports -40 to 75°C (-40 to 167°F) operating temperature

### PoE Connectivity

» Port 1 to 4 supports IEEE 802.3af+ Power over Ethernet

### Fiber Connectivity

» Up to two 100BASE-FX ports with SC and ST options

### Web-Managed Interface

» Comprehensive QoS based on 802.1p, DSCP, and IP precedence

## Specifications

## Technology

- **Standards**

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/100BASE-FX
- IEEE 802.3x Full duplex and flow control
- IEEE 802.3af Power over Ethernet (PoE)

- 

- **Forward and Filtering Rate**

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

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- **Packet Buffer Memory**

- 1M bits

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- **Processing Type**

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE 802.3x full-duplex flow control

- • Auto MDI/MDIX
  - 
  - **Address Table Size**
  - • 1024 MAC addresses
- 

## Power

- **Input**
  - • Redundant Power Inputs: Terminal Block: 47-57VDC  
DC Jack: 47-57VDC
  - 
  - **Power Consumption**
  - • Device: Max. 10W (without PoE)
  - • PoE Power Budget (depends on power input): 120W Max.
  - 
  - **PoE Technology**
  - • Alternative B  
Pins 7/8(-), 4/5(+)
  - 
  - **PoE Power Output**
  - • Port 1 to 4
  - • IEEE 802.3af+: up to 30W/port, 47-57VDC, 600mA Max.
  - 
  - **Protection**
  - • Reverse polarity protection
- 

## Mechanical

- **Casing**
  - • Aluminum Case
  - • IP30
  - 
  - **Dimensions**
  - • 68 x 110 x 135mm (W x D x H)  
(2.68" x 4.33" x 5.31")
  - 
  - **Weight**
  - • 1Kg (2.2lbs.)
  - 
  - **Installation**
  - • DIN-Rail (Top hat type 35mm), Panel or Rack mounting
- 

## Interface

- **Ethernet Ports**
  - • 10/100BASE-TX: 6, 7 or 8 ports
  - • 100BASE-FX: 0, 1 or 2 ports
  - 
  - **LED Indicators**
  - • Per Unit: Power 1 (Green), Power 2 (Green), Power 3 (Green)
  - • Per Port: Link/Activity (Green)
  - • Per PoE Port: PoE Status (Amber)
  - 
  - **Alarm Contact**
  - • One relay output with current 1A/24VDC
- 

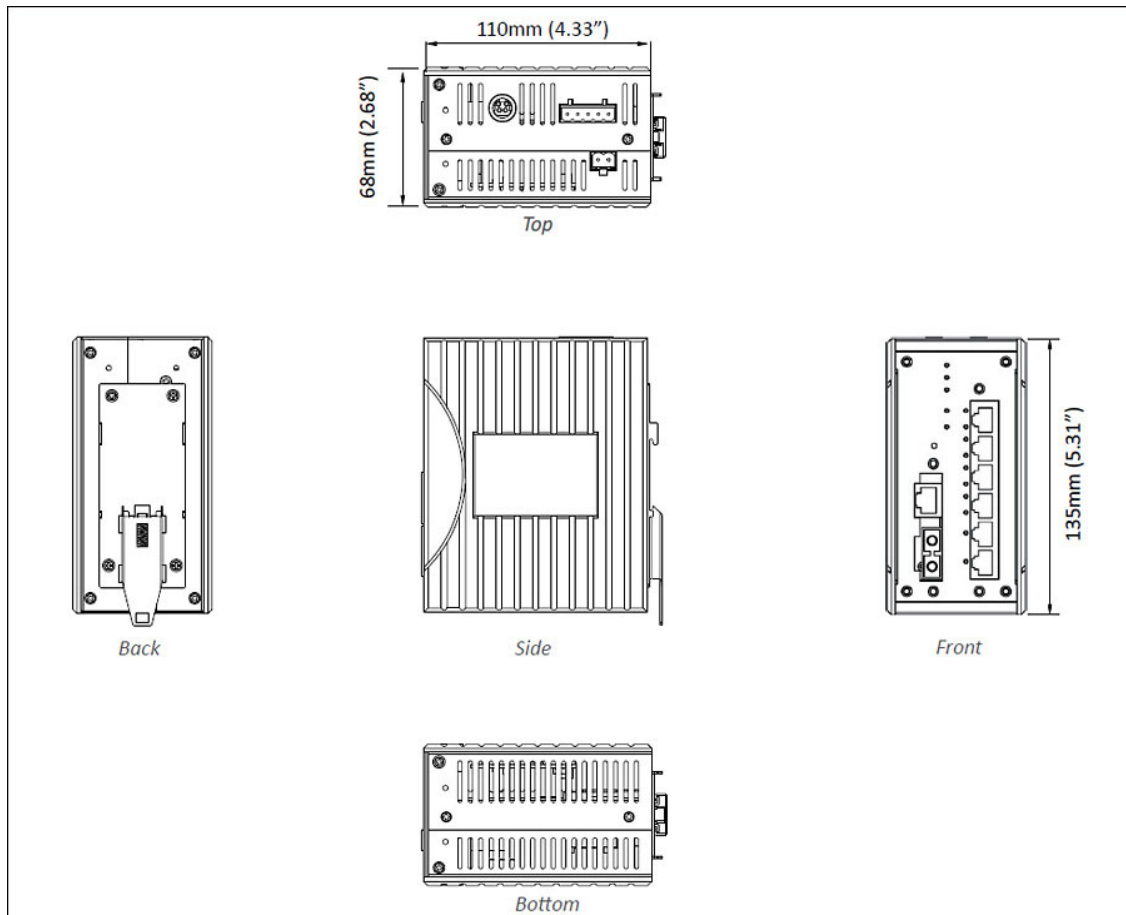
## Environment

- **Operating Temperature**
  - • -40 to 75°C (-40 to 167°F)  
Tested @ -40 to 85°C (-40 to 185°F)
  - 
  - **Web-Smart Function Operating Temperature**
  - • -20 to 75°C (-4 to 167°F)
  - 
  - **Storage Temperature**
  - • -40 to 85°C (-40 to 185°F)
  - 
  - **Ambient Relative Humidity**
  - • 5% to 95% (non-condensing)
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## Regulatory Approvals

- **ISO**
  - • Manufactured in an ISO 9001 facility
  - 
  - **EMI**
  - VCCI Class A
  - FCC Part 15B Class A
  - EN 61000-6-4
  - EN 55022 Class A
  - 
  - **EMS**
  - EN 61000-6-2
    - • EN 61000-4-2 (ESD Standards)
    - • EN 61000-4-3 (Radiated FRI Standards)
    - • EN 61000-4-4 (Burst Standards)
    - • EN 61000-4-5 (Surge Standards)
    - • EN 61000-4-6 (Induced RFI Standards)
    - • EN 61000-4-8 (Magnetic Field Standards)
  - 
  - **Environmental Test Compliance**
  - IEC 60068-2-6 Fc (Vibration)
  - IEC 60068-2-27 Ea (Shock)
  - FED STD 101C Method 5007.1 (Free fall w/package)
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## Dimensions



## Ordering Info

## Model

EX46180-00B 8-port 10/100BASE-TX PoE+ Hardened Web-smart Ethernet Switch

EX46171-X0B 7-port 10/100BASE-TX +1-port 100BASE-FX PoE+ Hardened Web-smart Ethernet Switch

EX46162-X0B 6-port 10/100BASE-TX +2-port 100BASE-FX PoE+ Hardened Web-smart Ethernet Switch

\* DIN-Rail mounting kit included.

## 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.

## Optional Accessories

KP-AA96-480 Panel mounting Kit

KR-BK43-400 Rack mounting Kit

EDR-120-48 120W/2.5A DIN-Rail 48VDC Industrial Power Supply

NDR-240-48 240W/5A DIN-Rail 48VDC Industrial Power Supply

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