

# EX36000 Series

## Web-smart Industrial 8-port 10/100BASE PoE Ethernet Switch



### Value

- › Supports IEEE 802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- › 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- › Provides user-friendly Web-smart interface for switch configuration and management.
- › -10°C to 60°C (14°F to 140°F) operating temperature range.
- › Supports Redundant power inputs with Terminal Block and DC Jack



## 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)
- › 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- › 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
- › Alarms for power and port link failure by relay output
- › Redundant power inputs with Terminal Block and DC Jack

## Ordering Information

|             |                                                                                  |
|-------------|----------------------------------------------------------------------------------|
| EX36080-00Z | 8-port 10/100BASE-TX Industrial Web-smart PoE Ethernet Switch                    |
| EX36071-X0Z | 7-port 10/100BASE-TX +1-port 100BASE-FX Industrial Web-smart PoE Ethernet Switch |
| EX36062-X0Z | 6-port 10/100BASE-TX +2-port 100BASE-FX Industrial 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](#)

\*\*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"> <li>IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3x, IEEE802.3af</li> </ul>                        |
| Forward and Filtering Rate | <ul style="list-style-type: none"> <li>14,880pps for 10Mbps</li> <li>148,810pps for 100Mbps</li> </ul>                                         |
| Packet Buffer Memory       | <ul style="list-style-type: none"> <li>1M bits</li> </ul>                                                                                      |
| Processing Type            | <ul style="list-style-type: none"> <li>Store-and-Forward</li> <li>Half-duplex back-pressure and IEEE802.3x full-duplex flow control</li> </ul> |
| Address Table Size         | <ul style="list-style-type: none"> <li>1024 MAC addresses</li> </ul>                                                                           |

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

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

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

| Environment               |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature     | <ul style="list-style-type: none"> <li>-10°C to 60°C (-14°F to 140°F)</li> <li>Tested @ -20°C to 70°C (-4°F to 158°F)</li> </ul> |
| Storage Temperature       | <ul style="list-style-type: none"> <li>-40°C to 85°C (-40°F to 185°F)</li> </ul>                                                 |
| Ambient Relative Humidity | <ul style="list-style-type: none"> <li>5% to 95% (non-condensing)</li> </ul>                                                     |

| Regulatory Approvals          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO                           | <ul style="list-style-type: none"> <li>Manufactured in an ISO9001 facility</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EMI                           | <ul style="list-style-type: none"> <li>FCC Part 15, Class A</li> <li>EN61000-6-4 <ul style="list-style-type: none"> <li>EN55022</li> <li>EN61000-3-2</li> <li>EN61000-3-3</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EMS                           | <ul style="list-style-type: none"> <li>EN61000-6-2 <ul style="list-style-type: none"> <li>EN61000-4-2 (ESD Standards)<br/>Contact: + / - 4KV<br/>Air: + / - 8KV</li> <li>EN61000-4-3 (Radiated RFI Standards)<br/>10V/m, 80 to 1000MHz; 80% AM<br/>3V/m, 1400 to 2000MHz; 80% AM<br/>1V/m, 2000 to 2700MHz; 80% AM</li> <li>EN61000-4-4 (Burst Standards)<br/>Signal Ports: + / - 4KV<br/>D.C. Power Ports: + / - 4KV</li> <li>EN61000-4-5 (Surge Standards)<br/>Signal Ports: + / - 1KV; Line-to-Line<br/>D.C. Power Ports: + / - 0.5KV; Line-to-Earth</li> <li>EN61000-4-6 (Induced RFI Standards)<br/>Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM<br/>D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM</li> <li>EN61000-4-8 (Magnetic Field Standards)<br/>30A/m @ 50, 60Hz</li> </ul> </li> </ul> |
| Environmental Test Compliance | <ul style="list-style-type: none"> <li>IEC60068-2-6 Fc (Vibration Resistance)<br/>5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport)</li> <li>IEC60068-2-27 Ea (Shock)<br/>25g @ 11ms (Half-Sine Shock Pulse; Operation)<br/>50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)</li> <li>FED STD 101C Method 5007.1 (Free fall w/ package)<br/>-Tested with Cross Weight and Drop High standard table</li> </ul>                                                                                                                                                                                                                                                                                                                                                                     |

## Diagrams

Unit: mm

