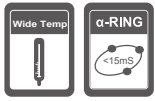


# EX61000A Series

Managed Industrial 8-port 10/100BASE and 2-port Gigabit Ethernet Switch with SFP options



## Value

- › Provides flexibility of 8-port 10/100BASE-TX/FX/BX/SFP plus 2-port Gigabit-TX/SX/LX/BX/SFP
- › Wide temp range for extreme environments



## Features

- › Supports alpha-ring and RSTP/MSTP/STP for Ethernet redundancy
- › IP Multicast Filtering through IGMP Snooping V1, V2 & V3
- › Supports port-based VLAN and IEEE802.1Q VLAN Tagging and GVRP
- › IEEE802.1p QoS with four priority queues
- › MAC-based trunking and LACP
- › IEEE802.1x Security
- › Bandwidth Rate Control
- › Per-port programmable MAC address locking
- › Up to 24 Static Secure MAC addresses per port
- › Port mirroring
- › NTP synchronization
- › DHCP Client/Server
- › RS-232 console, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management
- › 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- › Full wire-speed forwarding rate
- › -10°C to 60°C (-14°F to 140°F) operating temperature range

## Ordering Information

EX61800A-00Z	8-port 10/100BASE-TX Industrial Managed Ethernet Switch
EX61801A-0YZ	8-port 10/100BASE-TX + 1-port Gigabit Industrial Managed Ethernet Switch
EX61802A-0YZ	8-port 10/100BASE-TX + 2-port Gigabit Industrial Managed Ethernet Switch
EX61620A-X0Z	6-port 10/100BASE-TX + 2-port 100BASE-FX Industrial Managed Ethernet Switch
EX61621A-XYZ	6-port 10/100BASE-TX + 2-port 100BASE-FX + 1-port Gigabit Industrial Managed Ethernet Switch
EX61622A-XYZ	6-port 10/100BASE-TX + 2-port 100BASE-FX + 2-port Gigabit Industrial Managed Ethernet Switch
EX61420A-X0Z	4-port 10/100BASE-TX + 2-port 100BASE-FX Industrial Managed Ethernet Switch
EX61422A-XYZ	4-port 10/100BASE-TX + 2-port 100BASE-FX + 2-port Gigabit Industrial Managed Ethernet Switch
EX61440A-X0Z	4-port 10/100BASE-TX + 4-port 100BASE-FX Industrial Managed Ethernet Switch

### 100FX Fiber Options :

- |   |   |
|---|---|
| (X) = 1 : Multi Mode (SC) - 2Km                   | B : Single Mode (SC) - 40Km                         |
| 2 : Multi Mode (ST) - 2Km                         | H : Single Mode (ST) - 20Km                         |
| 6 : Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 2Km | P : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 20Km |
| 7 : Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 2Km | Q : Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 20Km |
| 8 : Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 5Km | R : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 40Km |
| 9 : Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 5Km | S : Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 40Km |
| A : Single Mode (SC) - 20Km                       | V : SFP Mode  |
- \*More 100FX Fiber options also available upon request.

### Gigabit Port Options :

- |                              |   |
|------------------------------|---|
| (Y) = 1 : 10/100/1000BASE-TX | A : 1000BASE-LX (SC) - 10Km                         |
| 3 : 1000BASE-SX (SC) - 550m  | B : 1000BASE-LX (SC) - 20Km                         |
| 4 : 1000 BASE-SX (SC) - 2Km  | R : 1000BASE-BX (SC) WDM-TX:1310nm/RX:1550nm - 20Km |
| 5 : 1000 BASE-SX (ST) - 550m | S : 1000BASE-BX (SC) WDM-TX:1550nm/RX:1310nm - 20Km |
- \*More Gigabit options also available upon request.
- V : 1000BASE-SFP Mode

### Power Input Interface :

- (Z) = B : DC Jack & Terminal Block

### Power Supply : (Optional)

- \*Option A - Terminal Block power supply(s), part numbers: DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP
- \*\*Option B - DC Jack power supplies kit(s), part numbers: 41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

**Installation Type :** DIN Rail (mounting kit is included), Optional Rack Mount kits (KR-BK71000) and Panel Mount kits (KP-AA96-480) are available for ordering.

# Specifications

Technology	
Standards	<ul style="list-style-type: none"> <li>IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3ab 1000BASE-T, IEEE802.3z 1000BASE-SX/1000BASE-LX, IEEE802.3x, IEEE802.1p, IEEE802.1Q, IEEE802.1w, IEEE802.1x</li> </ul>
Forward and Filtering Rate	<ul style="list-style-type: none"> <li>14,880pps for 10Mbps</li> <li>148,810pps for 100Mbps</li> <li>1,488,100pps for 1000Mbps</li> </ul>
Packet Buffer Memory	• 2M bits
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	• 8192 MAC addresses

Power	
Input	• Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	• 11W Max. 0.92A @ 12VDC, 0.46A @ 24VDC
Overload Current Protection	• Present
Reverse Polarity Protection	• Present

Mechanical	
Casing	<ul style="list-style-type: none"> <li>Metal case</li> <li>IP30</li> </ul>
Dimensions	• 60mm (W) x 125mm (D) x 145mm (H) (2.36" (W) x 4.92" (D) x 5.7" (H))
Weight	• 1.1Kg (2.42lbs.)
Installation	• DIN-Rail (Top hat type35mm), Rack Mount, Wall Mount

Interface	
Ethernet Port	<ul style="list-style-type: none"> <li>10/100BASE-TX: 8, 6 or 4 ports</li> <li>100BASE-FX: 0 to 4 ports</li> <li>Gigabit: 0, 1 or 2 ports</li> </ul>
Console Port	• Port: One DB9 RS-232 port
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/ SFP: Link/Activity, Speed</li> <li>10/100/1000TX, 1000SX/LX/ SFP: Link/Activity, Speed</li> </ul>
Alarm Contact	• one relay output with current 1A @ 24VDC

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	• -40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	• 5% to 95% (non-condensing)

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

# Diagrams

Unit: mm

