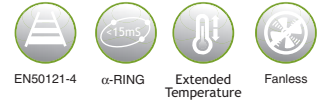


EX61000A/EX71000 Series

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
- EN50121-4 compliant for railway management



SFP Ports with DDM

Features

- EN50121-4 compliant for railway management
- Supports α-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 with automatic link fail-over RS-232 console, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management
- Supports Command Line Interface in RS-232 Console
- Supports IEEE802.1x Security
- Bandwidth Rate Control
- Per-port programmable MAC address locking
- Up to 24 Static Secure MAC addresses per port
- Port mirroring
- Supports NTP
- 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- -40°C to +75°C (-40°F to 167°F) operating temperature range

Ordering Information

EX61800A/EX71800-00Z	8-port 10/100BASE-TX Hardened Managed Ethernet Switch
EX61801A/EX71801-0YZ	8-port 10/100BASE-TX + 1-port Gigabit Hardened Managed Ethernet Switch
EX61802A/EX71802-0YZ	8-port 10/100BASE-TX + 2-port Gigabit Hardened Managed Ethernet Switch
EX61620A/EX71620-X0Z	6-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Managed Ethernet Switch
EX61621A/EX71621-XYZ	6-port 10/100BASE-TX + 2-port 100BASE-FX + 1-port Gigabit Hardened Managed Ethernet Switch
EX61622A/EX71622-XYZ	6-port 10/100BASE-TX + 2-port 100BASE-FX + 2-port Gigabit Hardened Managed Ethernet Switch
EX61420A/EX71420-X0Z	4-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Managed Ethernet Switch
EX61422A/EX71422-XYZ	4-port 10/100BASE-TX + 2-port 100BASE-FX + 2-port Gigabit Hardened Managed Ethernet Switch
EX61440A/EX71440-X0Z	4-port 10/100BASE-TX + 4-port 100BASE-FX Hardened Managed 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

*More 100FX Fiber options also available upon request.

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

V : SFP Mode

Gigabit Options :

(Y) = 1 : 10/100/1000BASE-TX

3 : 1000BASE-SX (SC) - 550m

4 : 1000 BASE-SX (SC) - 2Km

5 : 1000 BASE-SX (ST) - 550m

*More Gigabit options also available upon request.

A : 1000BASE-LX (SC) - 10Km

B : 1000BASE-LX (SC) - 20Km

R : 1000BASE-BX (SC) WDM-TX:1310nm/RX:1550nm - 20Km

S : 1000BASE-BX (SC) WDM-TX:1550nm/RX:1310nm - 20Km

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

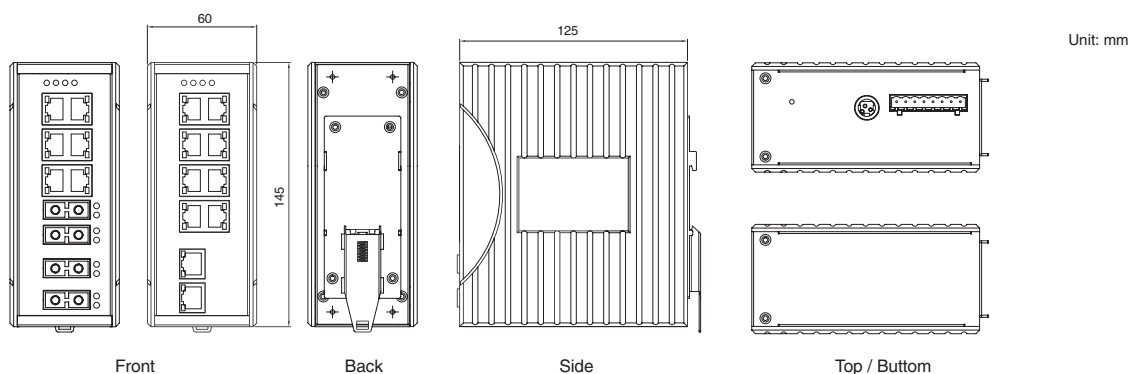
**Option B - DC Jack power supplies kit(s), part numbers: 41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

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	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
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps 1,488,100pps for 1000Mbps
Packet Buffer Memory	2M bits
Processing Type	Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
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 Protection	Present
Reverse Polarity Protection	Present
Mechanical	
Casing	Metal case IP30
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	10/100BASE-TX: 8, 6 or 4 ports 100BASE-FX: 0 to 4 ports Gigabit: 0, 1 or 2 ports
Console Port	Port: One DB9 RS-232 port LED Indicators Per Unit: Power Status (Power 1, Power 2, Power 3) Per Port: 10/100TX, 100FX/ SFP: Link/Activity, Speed 10/100/1000TX, 1000SX/LX/ SFP: Link/Activity, Speed
Alarm Contact	one relay output with current 1A @ 24VDC

Dimensions



Environment	
Operating Temperature	-10°C to +60°C (-14°F to 140°F) (EX61000A)
Storage Temperature	-40°C to +75°C (-40°F to 167°F) (EX71000)
Ambient Relative Humidity	5% to 95% (non-condensing)
Regulatory Approvals	
ISO	Manufactured in an ISO9001 facility
Safety	UL508 (EX71000)
EMI	*FCC Part 15, Class A *EN61000-6-4 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	*EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 6KV; Criteria B Air: + / - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B - EN61000-4-5 (Surge Standards) Signal Ports: + / - 2KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B - EN61000-4-6 (Induced RFI Standards) 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) 30A/m @ 50, 60Hz; Criteria A
Environmental Test Compliance	*IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) *IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) *IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)