EX61000A Series

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



Overview

EtherWAN's EX61000A Series provides an industrial fully managed 10-port switching platform that combines high performance with robust and secure management features required for mission critical and harsh environments.

The EX61000A Series is equipped with eight 10/100BASE Fast Ethernet ports, in combination with up to two Gigabit, fixed fiber, or SFP port options. Mountable on a DIN-rail, the EX61000A Series is equipped with EtherWAN's Alpha-Ring self-healing redundancy protocol, which provides a fault recovery time of less than 15ms, making it ideal for applications intolerant to interruption.

With support for both IPV4 and IPV6, management features include port security, IGMP snooping, VLANs, GARP protocols, and LACP. Management is via web browser, Telnet, SNMP, RMON, TFTP, and RS-232 console interfaces.

EtherWAN — "**When Connectivity is Crucial.**"

Highlights

Versatile Connectivity

Provides 8-port 10/100BASE-TX/FX/BX/SFP plus 2-port Gigabit-SX/LX/BX/SFP

Industrial Grade

Operating temperature range from -10 to 60°C (-14 to 140°F) for extreme environments

Fanless and ruggedized housing

Dual firmware image support

Dual flash images provide independent primary and secondary operating system files for backup

Features

Management

Interface

CLI, Telnet and Web Browser

SNMP v1/v2c/v3

Firmware and configuration upgrade and backup via TFTP

Supports DHCP Server/Client

RMON (Remote Monitoring): group 1, 2, 3, 9

Port mirroring: TX/RX and both

NTP (Network Time Protocol) time synchronization

IEEE 802.1ab LLDP (Link Layer Discovery Protocol)

IPv4/IPv6

Security

MAC address filtering

Enable/Disable port

Storm control (broadcast and multicast types)

IEEE 802.1x LAN access control

Remote authentication through RADIUS and TACACS+

SSH for CLI and Telnet security

SSL for web security

Multi-level user account/password against unauthorized configuration

System log (Remote/Local)

Quality of Service (QoS)

Priority Queues: 4 queues per port

Traffic classification based on IEEE 802.1p CoS, DSCP, WRR (Weighted Round Robin) and strict mode

Rate Limiting (Ingress/Egress)

Layer 2 Features

Auto-negotiation for port speed and duplex mode

Flow Control

IEEE 802.3x full duplex mode

Back-Pressure half duplex mode

Redundant Protocol

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

EtherWAN's Alpha-Ring network fault recovery (<15ms)

VLANs

Port-based VLANs

IEEE 802.1Q Tag VLANs (128 groups, 4096 VID)

GVRP (GARP VLAN Registration Protocol)

GMRP (GARP Multicast Registration Protocol)

Link Aggregation

Static Trunk (2 groups, support MAC base)

IEEE 802.3ad Link Aggregation Control Protocol

IGMP Snooping

IGMP Snooping v1/v2/v3

Specifications

Technology

Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX/100BASE-FX

IEEE 802.3ab 1000BASE-T

IEEE 802.3z 1000BASE-SX/1000BASE-LX

IEEE 802.3x Full duplex and flow control

IEEE 802.1p QoS

IEEE 802.1Q Tag VLANs

IEEE 802.1w RSTP

IEEE 802.1x Port-based Network Access Control

Forward and Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

1,488,100pps for 1000Mbps

Packet Buffer Memory

12M bits

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

16K MAC addresses

Interface

Ethernet Port

10/100BASE-TX: 4, 6 or 8 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 1, Power 2, Alarm

Per Port: Link/Activity, Speed

Alarm Contact

One relay output with current 1A/250VAC

Environment

Operating Temperature

-10 to 60°C (-14 to 140°F)
Tested @ -20 to 70°C (-4 to 158°F)

Storage Temperature

-40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

5% to 95% (non-condensing)

Power

Input

Redundant power inputs: 12-48VDC (Terminal Block)

Power Consumption

7.5W Max. 0.31A@24VDC

Protection

Reverse polarity protection

Mechanical

Casing

Aluminum Case

IP30

Dimensions

60 x 125 x 145mm (W x D x H)
(2.36" x 4.92" x 5.7")

Weight

1.03Kg

Installation

DIN-Rail

Regulatory Approvals

ISO

Manufactured in an ISO 9001 facility

Safety

UL 61010

EMI

FCC Part 15B Class A

EN 61000-6-4

EN 55032

EN 61000-3-2

EN 61000-3-3

EMS

EN 61000-6-2

EN 61000-4-2 (ESD Standards)

EN 61000-4-3 (Radiated RFI 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)

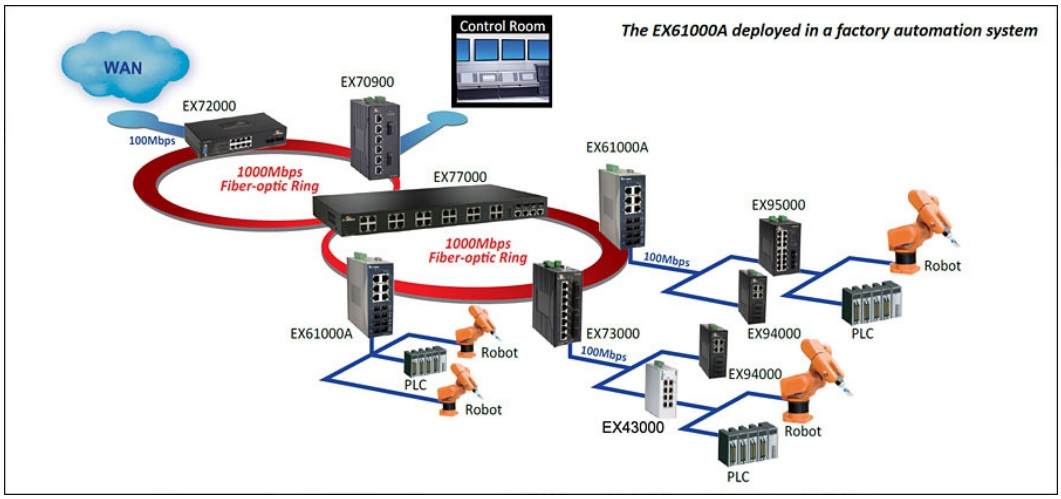
Environmental Test Compliances

FED STD 101C Method 5007.1 (Free fall w/package)

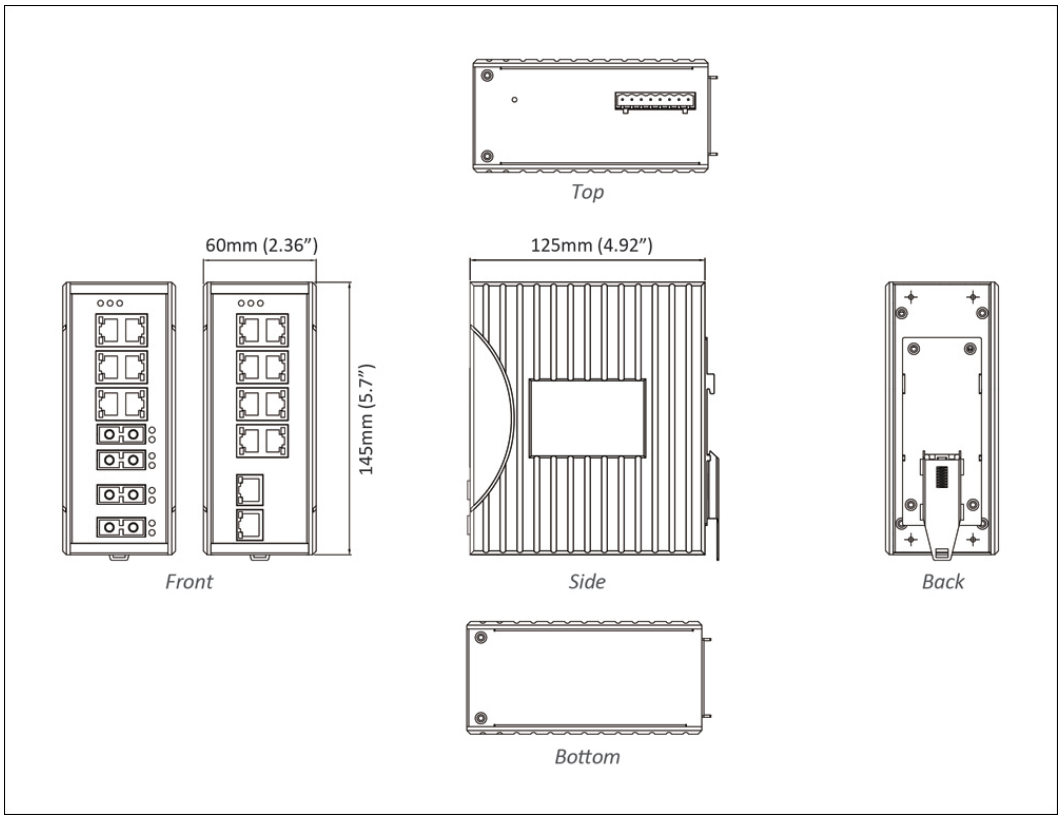
Industrial Compliance

EN 50121-4

Application



Dimensions



Ordering Info

Model

EX61802A-0YB	8-port 10/100BASE-TX +2-port Gigabit Industrial Managed Ethernet Switch
EX61620A-X0B	6-port 10/100BASE-TX +2-port 100BASE-FX Industrial Managed Ethernet Switch
EX61622A-XYB	6-port 10/100BASE-TX +2-port 100BASE-FX +2-port Gigabit Industrial Managed Ethernet Switch
EX61440A-X0B	4-port 10/100BASE-TX +4-port 100BASE-FX Industrial Managed Ethernet Switch

* DIN-Rail mounting kit included.

100FX Fiber Options (X)

1	Multi Mode (SC) - 2Km
2	Multi Mode (ST) - 2Km
A	Single Mode (SC) - 20Km
B	Single Mode (SC) - 40Km
V	100BASE SFP (DDM)

* More 100FX Fiber options also available upon request.

Gigabit Port Options (Y)

1	10/100/1000BASE-TX
3	1000BASE-SX (SC) - 550m
4	1000BASE-SX (SC) - 2Km
5	1000BASE-SX (ST) - 550m
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	100/1000BASE SFP (DDM)

* More Gigabit options also available upon request.

Optional Accessories

KP-AA96-480	Panel mounting kits

KR-BK71000	Rack mounting kits
HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EDR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
EX41-145046-X	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

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