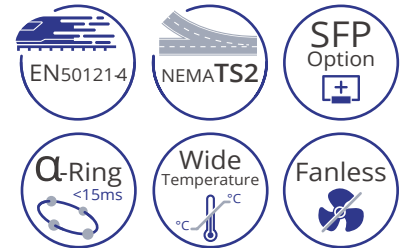


EX71000 Series

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



Product Highlights

Hardened-Grade for Non-Ventilated & Harsh Environments

- Wide operating temperature range -40 to 75°C (-40 to 167°F)
- Fanless operation
- High impact, thermal shock, and electrical noise resistance

Compliance

- EN 50121-4 certified for railway applications
- NEMA TS2 rated
- UL certified for safety

Management/Security Features

- Port control
- 802.1x port-based network access control and remote authentication through RADIUS and TACACS+
- Configure and monitor with eVue™ and eLite™

Support

- Complimentary Technical Support
- Free Firmware Upgrades
- Limited Lifetime Warranty

Overview

EtherWAN's EX71000 Series is a hardened DIN-rail mounted managed Ethernet switch platform. Equipped with up to 8 10/100BASE-TX and 2 fiber ports, the EX71000 Series provides flexibility, speed, and reliability to support networks for urban infrastructure, transportation, security, and other areas where connectivity is crucial.

Ordering Information

Models

EX71802-0YB	8-port 10/100BASE-TX + 2-port Gigabit
EX71620-X0B	6-port 10/100BASE-TX + 2-port 100BASE-FX
EX71622-XYB	6-port 10/100BASE-TX + 2-port 100BASE-FX + 2-port Gigabit
EX71440-X0B	4-port 10/100BASE-TX + 4-port 100BASE-FX

* 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.

Ordering Information

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.

Software Features

Interface	+
CLI, Telnet, Web Browser	
SNMP v1/v2c/v3	
Management	+
Firmware upgrade	
Configuration backup via TFTP	
DHCP Server/Client	
RMON (Remote Monitoring): group 1, 2, 3, 9	
Port Mirroring: TX/RX and both	
NTP (Network Time Protocol) 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	
System log (Remote/Local)	
Multi-level user account/password against unauthorized configuration	

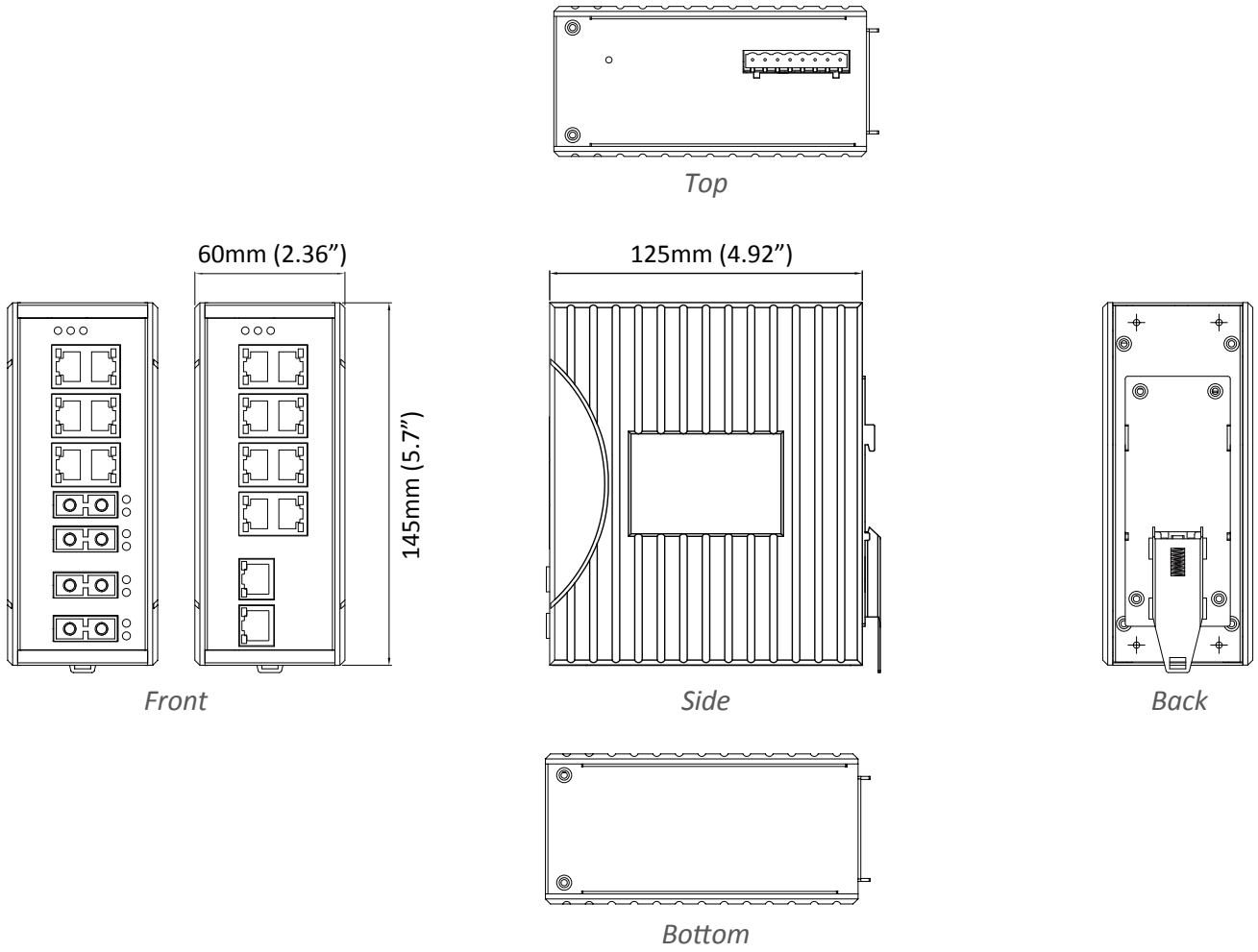
Quality of Service (QoS)	+
Priority Queues: 4 queues per port	
Traffic classification based on IEEE 802.1p CoS, DSCP, WRR and strict mode	
Rate Limiting (Ingress/Egress)	
Layer 2 Features	+
Auto-negotiation for port speed and duplex mode	Flow Control IEEE 802.3x Full duplex mode Back-Pressure half duplex mode
Redundant Protocols	IEEE 802.1D STP IEEE 802.1w RSTP IEEE 802.1s MSTP EtherWAN's Alpha-Ring network fault recovery (<15ms)
VLANs	Port-based VLANs IEEE 802.1Q Tag VLANs (128 groups, 4096 VID) GVRP GMRP
Link Aggregation	Static Trunk (2 groups, support MAC base) IEEE 802.3ad LACP
IGMP Snooping v1/v2/v3	

Hardware Specifications

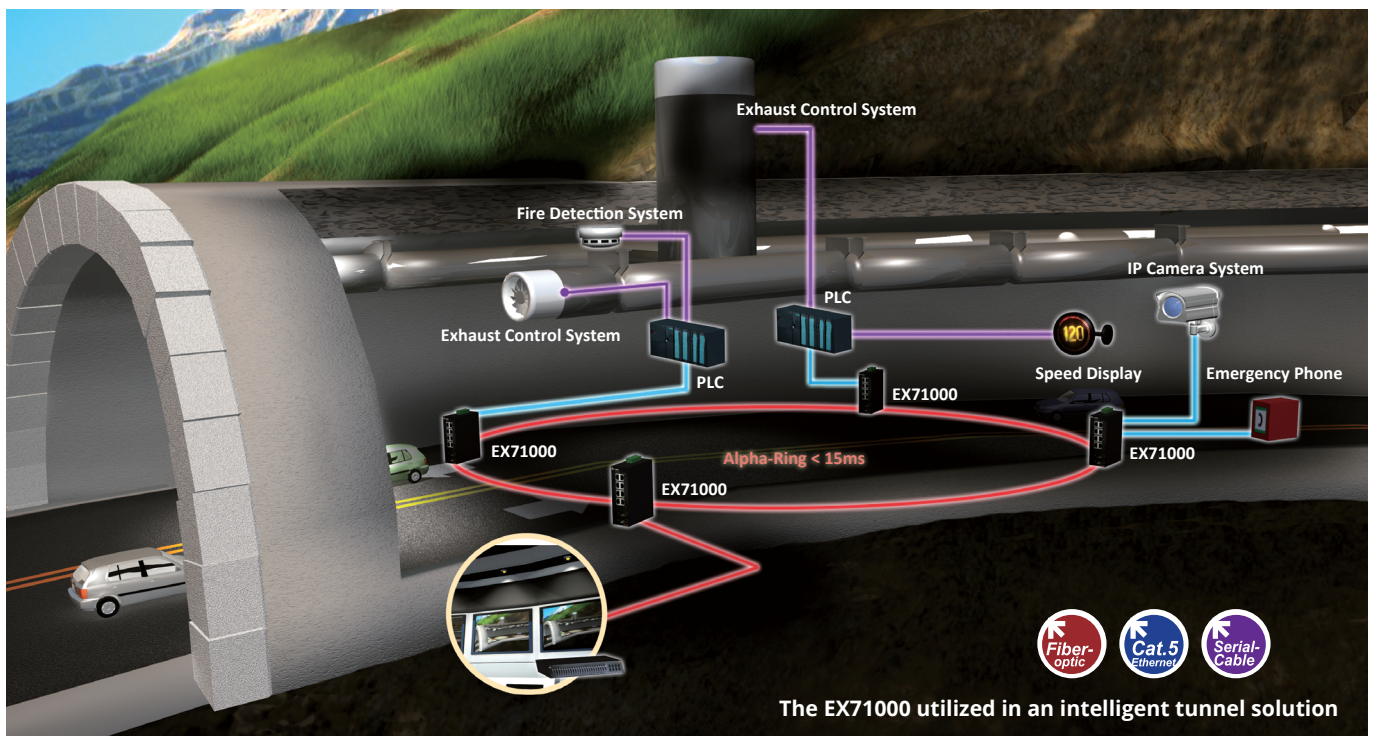
Interface		+
Ethernet	4, 6 or 8 x 10/100BASE-T(X) 0 or 4 x 100BASE-FX 0, 1 or 2 x Gigabit	
Console	1 x DB9 RS-232	
Alarm Contact	1 x Relay output, current capacity 0.6A/30VDC	
LED Indicators	Per Unit: Power 1, Power 2, Alarm Per Port: Link/Activity, Speed	
Technology		+
Standards	IEEE 802.3 10BASE-T 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 PNAc	
Forward/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	
Power		+
Input	12-48VDC Redundant (Terminal block)	
Power Consumption	7.5W Max. 0.31A@24VDC	
Protection	Reverse Polarity Protection	
Physical		+
Casing Material	Aluminum	
IP Rating	IP30	
Dimensions	60 x 125 x 145mm (W x D x H) 2.36" x 4.92" x 5.7"	
Weight	1.05kg	
Installation Type	DIN-rail mounting	

Environmental		+
Operating Temp.	-40 to 75°C (-40 to 167°F) Tested @ -40 to 85°C (-40 to 185°F)	
Storage Temp.	-45 to 85°C (-49 to 185°F)	
Relative Humidity	5% to 95% (non-condensing)	
Regulatory		+
ISO	Manufactured in ISO-9001 facility	
EMI	FCC Part 15B Class A EN 55032 EN 61000-6-4 EN 61000-3-2 EN 61000-3-3	
EMS	EN 61000-6-2 EN 61000-4-2 (ESD) EN 61000-4-3 (Radiated RFI) EN 61000-4-4 (Burst) EN 61000-4-5 (Surge) EN 61000-4-6 (Induced RFI) EN 61000-4-8 (Magnetic Field)	
Safety	UL 61010 ISA 12.12.01	
Vibration	IEC 60068-2-6 Fc	
Shock	IEC 60068-2-27 Ea	
Free Fall	FED STD 101C Method 5007.1	
Industrial Compliance	NEMA TS2 EN 50121-4	
Warranty		+
Length	Limited Lifetime	
Details	www.etherwan.com/support/warranty-policy	
What's Included		+
Device	Ethernet Switch	
Cables	1 Console Cable	
Documentation	Quick Install Guide	

Dimensions



Application



Software

Network Management eVue™ Network Configuration and Monitoring Tool

Network Discovery eLite™ Network Discovery and IP Configuration Tool

EtherWAN [Home](#) [Devices](#) [Batch](#) [Group](#) [Events](#) [Settings](#) [Screen Zoom](#) [Logout](#)

Device List

IP	System Name	Group
192.168.50.12	EG99-5012	
192.168.50.62	EX709-5062	
192.168.50.254	R50	
192.168.50.11	EG99-5011	
192.168.50.63	EX74-5063	
192.168.50.14	EX779-5014	
192.168.50.61	EX71v2-5061	
192.168.50.44	EX71-5044	
192.168.50.64	EX73-5064	
192.168.50.34	EX739-5034	

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Topology

Latest Events 0 0 0

Acknowledged	ID	Severity	Time	Service	Node	Message
✓	5107	Normal	6/28/2019, 9:50:35 AM	login	server	User 'admin' logged in.
✓	5106	Normal	6/27/2019, 10:00:50 AM	login	server	User 'admin' logged in.
✓	5105	Major	6/24/2019, 1:18:23 PM	ping-monitor	192.168.1.19	Web 192.168.1.19 is down.
✓	5105	Major	6/24/2019, 1:18:23 PM	ping-monitor	192.168.1.19	Telnet 192.168.1.19 is down.
✓	5104	Normal	6/24/2019, 1:12:34 PM	login	server	User 'admin' logged in.

eLite - □ ×

List Server Firmware Configuration Help

IP Address	MAC Address
192.168.50.22	00:e0:b3:50:22:00
192.168.50.31	00:e0:b3:50:31:00
192.168.50.72	00:e0:b3:50:72:00
192.168.50.55	00:e0:b3:50:55:00
192.168.50.23	00:e0:b3:50:23:00
192.168.50.73	00:e0:b3:50:73:00
192.168.50.44	00:e0:b3:50:44:00
192.168.50.64	00:e0:b3:50:64:00
192.168.50.43	00:e0:b3:50:43:00
192.168.50.62	00:e0:b3:50:62:00
192.168.50.71	00:e0:b3:50:71:00
192.168.50.24	00:e0:b3:50:24:00

Accessories

Hardened SFP Modules	+
www.etherwan.com/products/sfp-fiber-transceiver	
DIN-Rail Power Supplies	+
www.etherwan.com/products/din-rail-power-supply (*)	
*Recommended Power Supply	+
HDR-30-24 30W 24VDC DIN-Rail Power Supply	
EB-232	+
Configuration Backup and Restoration Tool	