EX73900 Series

Hardened Managed 12-16-port Gigabit Ethernet Switch



Overview

When should you use an Industrial Layer 3 switch?

EtherWAN's EX73900 Series is a hardened DIN-rail mounted managed Ethernet switch platform. Equipped with up to 12 gigabit Ethernet and 4 gigabit fiber ports, the EX73900 Series provides flexibility, speed, and reliability to support networks for urban infrastructure, transportation, security, power substations, and other areas where connectivity is crucial.

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

Highlights

This product has been discontinued as of 05/31/22. Please see the following for an alternative product: EX73900E Series

High Bandwidth and Versatility

8 or 12 10/100/1000BASE-T(X) ports for high bandwidth connections
Up to 4 gigabit fiber connections
Full capacity switching running at full duplex

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

Lite Layer 3 Functionality

Static routing, RIP v1/v2, and OSFP support
Redundancy with VRRP
Reduces amount of broadcast traffic

Compliance

IEC 61850-3/IEEE 1613 certified for power substations
NEMA TS2 rated
UL certified for safety

Management/Security Features

Port control
RADIUS remote authentication
Configure and monitor with eVue™ and eLite™

Support

Complimentary Technical Support
Free Firmware Upgrades
Limited Lifetime Warranty

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)

ACL (Access Control List, up to 4096 entries)

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

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

Link Aggregation
Static Trunk (4 groups, support MAC base)
IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

Layer 3 Features

IP Packet Routing
Maximum number of routes in hardware: 64 entries
Static Routing
RIP v1/v2
OSPF v2

Routing Redundancy
VRRP

Specifications

Interface

Ethernet

8 or 12 x 10/100/1000BASE-T(X)

4 x 1000BASE SX/LX/SFP

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

Per Port: Link/Activity (Green)

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
17.28W Max. 1.44A@12VDC, 0.72A@24VDC

Protection
Reverse Polarity Protection

Physical

Casing Material
Aluminum

IP Rating
IP30

Dimensions
72 x 140 x 170mm (W x D x H)
2.8” x 5.5” x 6.7"

Weight
1.4kg (3.09lbs)

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
VCCI Class A
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

Vibration
IEC 60068-2-6 Fc

Shock
IEC 60068-2-27 Ea

Free Fall

FED STD 101C Method 5007.1

Industrial Compliance

IEC 61850-3/IEEE 1613

NEMA TS2

Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

What's Included

Device

Ethernet Switch

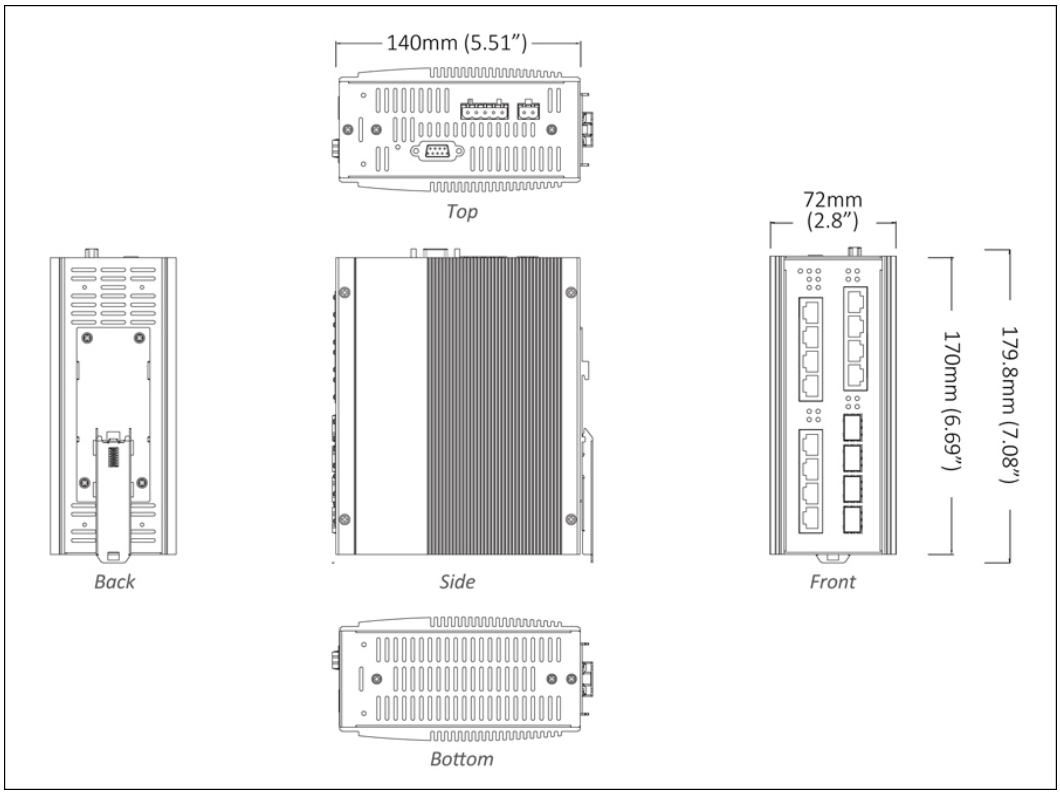
Cables

1 Console Cable

Documentation

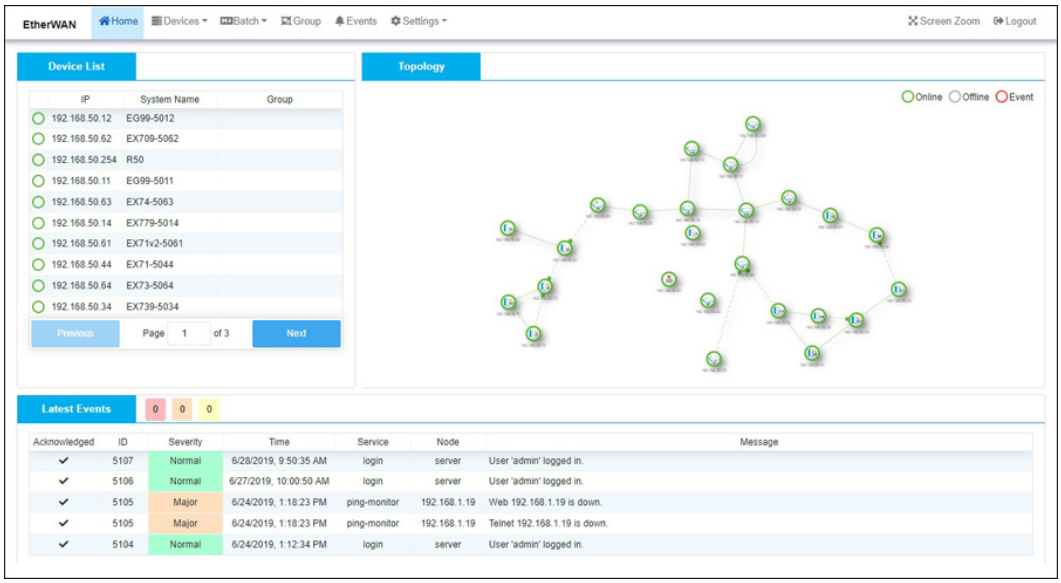
Quick Install Guide

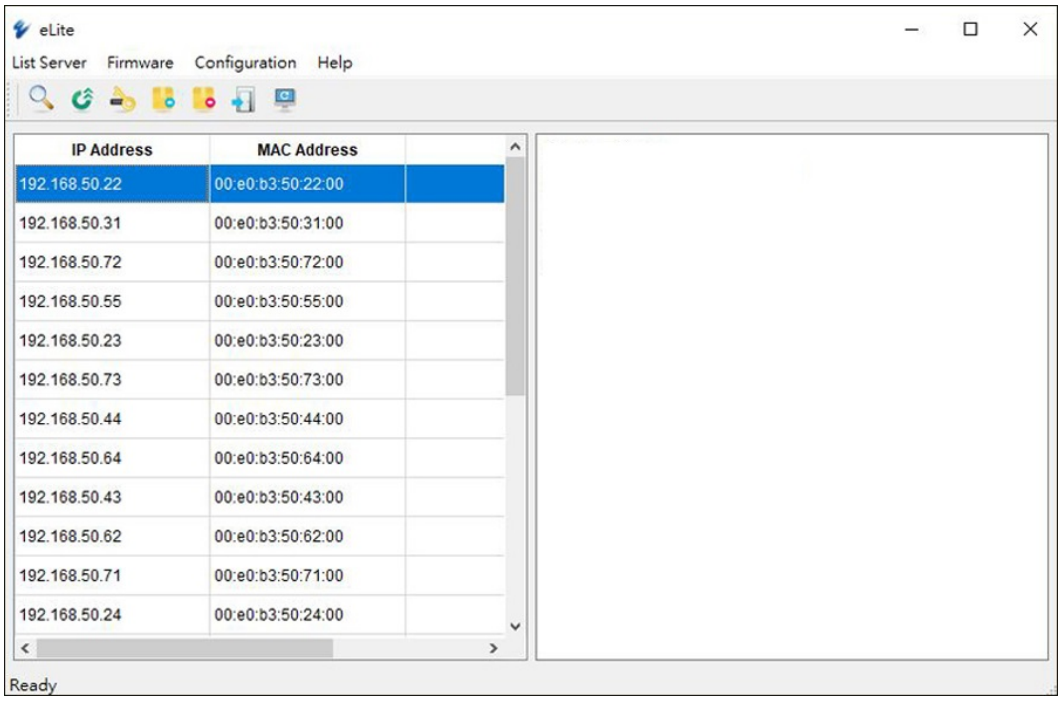
Dimensions


140mm (5.51")
Top
72mm
(2.8")
179.8mm (7.08")
170mm (6.69")
Back
Side
Front
Bottom

Software

Network Management	eVue™ Network Configuration and Monitoring Tool
Network Discovery	eLite™ Network Discovery and IP Configuration Tool





Ordering Info

Model - Buy Now

EX73931-0VB	12-Port 10/100/1000BASE-TX + 4-port Gigabit SFP
EX73921-0VB	8-Port 10/100/1000BASE-TX + 4-Port Gigabit SFP

* DIN-Rail mounting kit included.

* DIN-Rail mounting kit included.

* EX73921-0XB EOL Notice

Gigabit Fiber Options (X)

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

* More Gigabit options are also available upon request.

Accessories

Hardened Gigabit SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
DIN-Rail Power Supplies	EPOW-24-60
***Recommended Power Supply**	EPOW-24-60
EB-232	Configuration Backup and Restoration Tool

© EtherWAN Systems, Inc. All rights reserved. 20260512

EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.