

EX73900 Series

Hardened Managed 12-16-port Gigabit Ethernet Switch



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 OSPF 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

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."

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

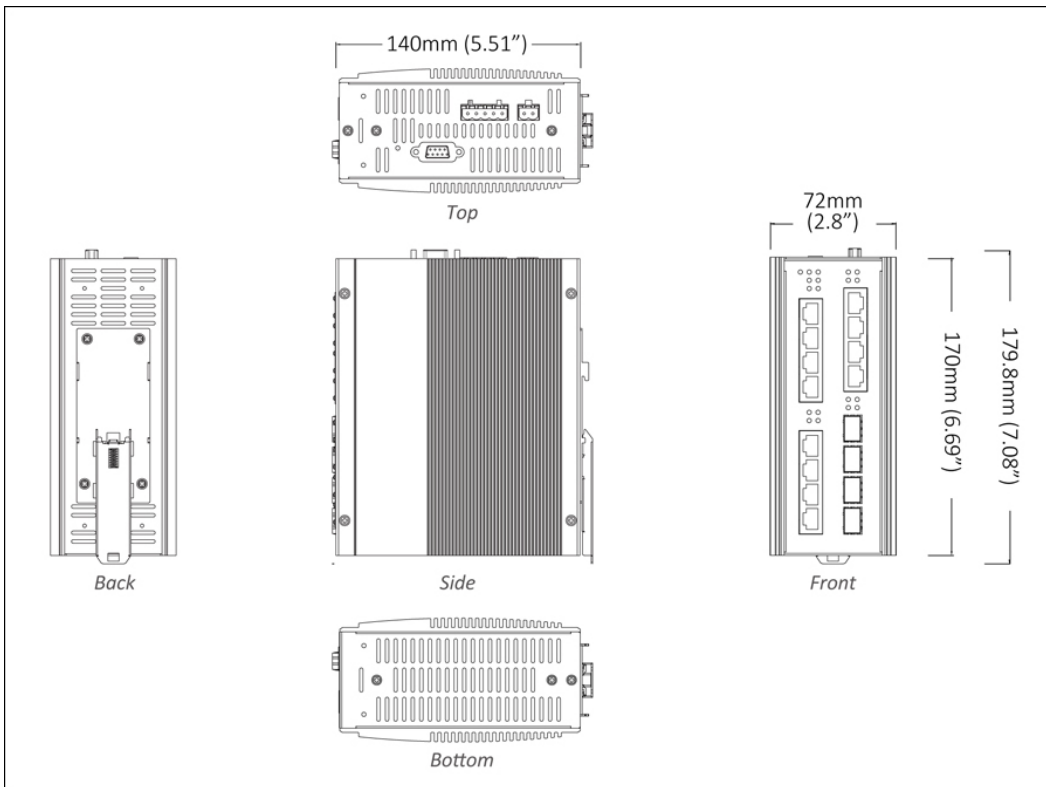
Details
www.etherwan.com/support/warranty-policy

+ What's Included

Device
Ethernet Switch

Cables

Dimensions



Software

[Network Management eVue™ Network Configuration and Monitoring Tool](#)
[Network Discovery eLite™ Network Discovery and IP Configuration Tool](#)

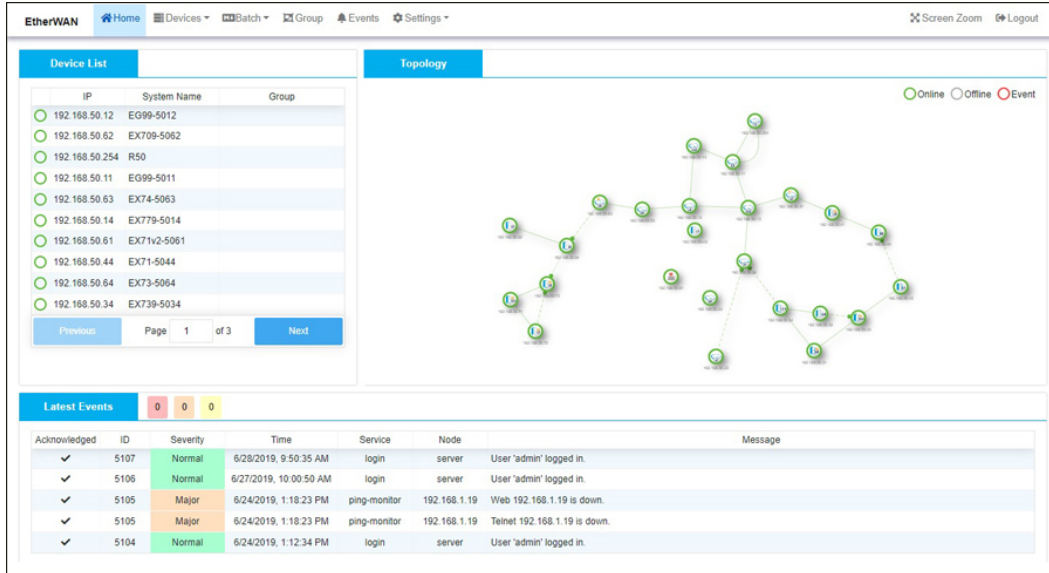
EtherWAN Home Devices Batch Group Events Settings Screen Zoom Logout

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



Online Offline Event

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

Search
Refresh
Home
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 | |

Ready

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 |
| EX73921-0XB | 8-Port 10/100/1000BASE-TX + 4-Port Gigabit Fiber |

* DIN-Rail mounting kit included.

+ 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 |

