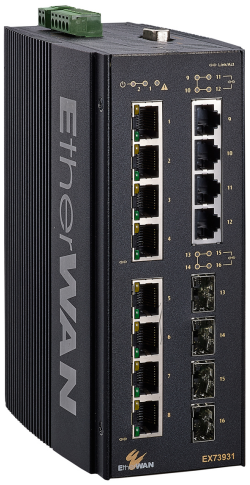
EX73900 シリーズ

IEC 61850-3/IEEE 1613 Lite L3 広範囲動作温度対応/管理型 16ポート ギガビット イーサネット スイッチ



概要

本商品につきましては2026年7月28日をもって販売を終了させて頂きました。代替製品については こちらのページ をご覧ください。

なぜ産業用レイヤ 3 スイッチは必要がありますか。

EtherWAN の EX73900 シリーズは広範囲動作温度対応、DINレール型、最大16ポート運用が可能なイーサネット スイッチで、安定した通信が必要不可欠な過酷な環境にも対応する堅牢な管理機能を備えたハイパフォーマンスな製品です。

EX73900 シリーズは 10/100/1000BASE-TX 12ポートまで装備でき、またギガビット光ポート4個を選択できます。EX73900 シリーズは リング構成の1ルートが遮断されても 15ms 以内で自動復帰する Alpha-Ring という独自リングプロトコルを搭載していて、高度な接続信頼性が必要な環境に柔軟に対応します。ポート セキュリティや IGMP、VLAN、GARP プロトコ ル、LACP、ACLなどの管理機能はブラウザ経由で設定可能です。Telnet、SSH、SNMP、RMON、TFTP、RS-232 コンソール接続などにも対応します。

過酷な環境向けに設計され、動作温度は -40～75°C と広範囲温度に対応した上、IEC 61850 & IEEE 1613 準拠し、high EMI の環境での稼動に最適な選択です。

EtherWAN — "When Connectivity is Crucial."

特長

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

Compliance

IEC 61850-3/IEEE 1613 certified for power substations

NEMA TS2 rated

UL certified for safety

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

Management/Security Features

Port control

RADIUS remote authentication

Configure and monitor with eVue™ and eLite™

Lite Layer 3 Functionality

Static routing, RIP v1/v2, and OSFP

Redundancy with VRRP

Reduces amount of broadcast traffic

Support

Complimentary Technical Support

Free Firmware Upgrades

Limited Lifetime Warranty

機能

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

仕様

Interface

Ethernet

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

4 x 1000BASE 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)

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)

Power

Input

12-48VDC Redundant (Terminal block)

Power Consumption

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

Protection

Reverse Polarity Protection

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

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

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

Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

What's Included

Device

Ethernet Switch

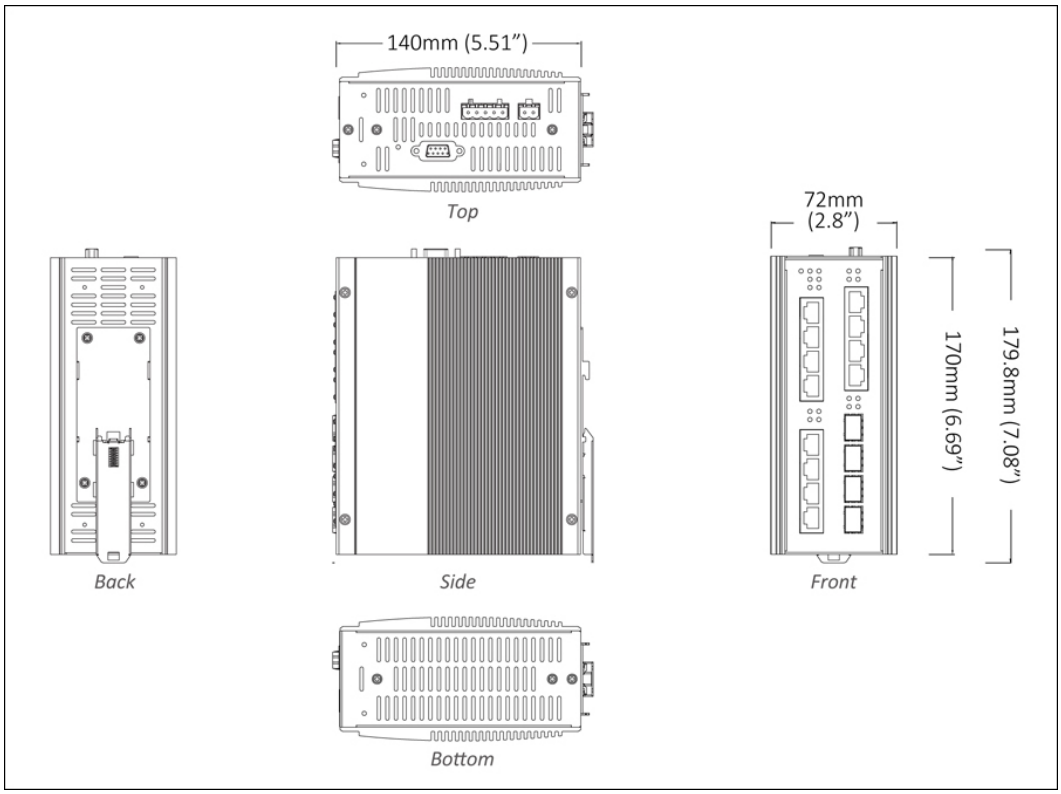
Cables

1 Console Cable

Documentation

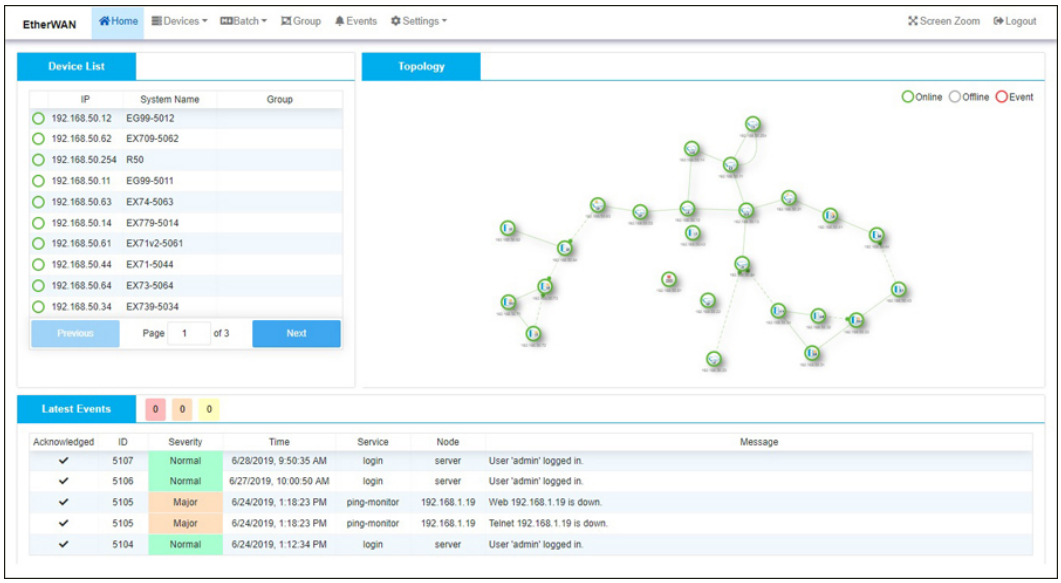
Quick Install Guide

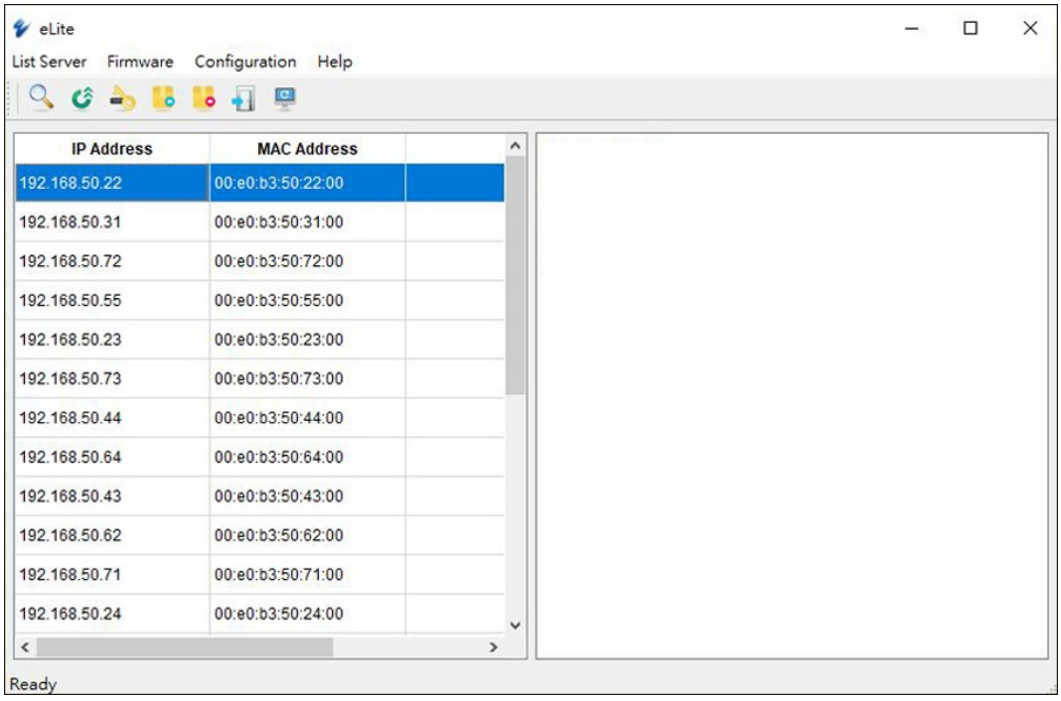
寸法図


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

ソフトウェア

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





製品型番

Model



	EX73931-0VB
10/100/1000BASE TX	12
100/1000/2500BASE SFP	4
	お問い合わせ

* DIN-Rail mounting kit included.
* EX73921-0XB EOL Notice

Accessories

Hardened Gigabit 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

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