EX71900G 系列

強固級網管型 8 埠 Gigabit + 4 埠 100/1G/2.5G SFP 乙太網路交換器



產品介紹

EX71900G 系列展現新一代 2.5G 工業網路交換技術的全面突破——以精巧無風扇架構結合智慧化管理能力，為工業級網路帶來前所未有的效能升級。

配備最高 8 個 Gigabit RJ 45 埠與 4 個 SFP 上行埠，其中光纖埠支援 100Mbps / 1Gbps / 2.5Gbps 三重速度彈性，從現有部署到未來高速需求，都能輕鬆應對，高效滿足不同場域的頻寬成長趨勢。

輕薄節省空間的工業機構設計，搭配多樣化安裝配件，讓安裝變得更快速、更靈活；即使在狹窄或受限的環境中，也能輕鬆完成部署，且不需在效能或可靠性上有所取捨。 為嚴苛環境與關鍵任務而生，EX71900G 系列整合 Layer 2 網管能力與 Layer 3 進階功能，提供高可靠度與穩定性，確保在智慧城市基礎建設、交通運輸系統、工廠自動化等應用中，都能提供持續、無縫、高品質的網路連線。

EtherWAN — "When Connectivity is Crucial."

產品亮點

2.5GbE 高頻寬網路交換器

支援 2.5Gbps 超高速連接埠，頻寬再升級
4 個獨立 SFP 埠支援三速 100/1G/2.5G 光纖連接
高達 36Gbps 交換容量的全雙工運行

適用於不通風和惡劣環境的強固設計

-40 至 75°C 寬工作溫度範圍
無風扇設計
高衝擊、耐熱和電氣干擾抵抗力
6Kv防雷突波設計

精巧設計極致效能

小巧尺寸輕鬆置入機櫃，為空間受限的安裝環境量身打造
緊湊結構設計，效能不打折
所有接口皆位於前方，優化佈線管理

第三層網管功能

靜態路由、RIP v1/v2 和 OSPF
VRRP 虛擬路由器備援協定

產品特色

Interface

CLI console, SSH, Web GUI

Management

Firmware Upgrade
Configuration Backup
DHCP Server/Client/Snooping/Relay
RMON (Remote Monitoring)
Port Mirroring
NTP (Network Time Protocol) Synchronization
LLDP (Link Layer Discovery Protocol)
IPv4/IPv6
SNMP v1/v2c/v3
RESTful API

Security

MAC Address Filtering
Enable/Disable Port
Storm Control
System logging
Remote Authentication through RADIUS and TACACS+
Complex Password Support
Multi-User Login and Privileged Access Management
SSH for CLI and Telnet Security
SSL and HTTPS for Web Security
ACL (Access Control List)

Layer 2 Features

Auto-Negotiation for Port Speed and Duplex

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
ITU-T G.8032 Ethernet Ring Protection Switch (ERPS)

VLANs

IEEE 802.1Q Tag VLANs
GVRP
GMRP

Link Aggregation

Static Trunk (8 groups)
IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

Layer 3 Features

IP Packet Routing

Maximum 512 hosts
Maximum 64 routes
Static routing
RIP v1/v2
OSPF v2

Routing Redundancy

VRRP v2

Quality of Service (QoS)

Priority Queues: 8 Queues per Port

Traffic Classification Based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin), and Strict Mode

Rate Limiting (Ingress/Egress)

Software Properties and Performance

Switching Fabric

36Gbps

Forwarding Rate

26.78Mpps

Max VLANs

256 groups (4096 VID)

Jumbo Frame Size

9KB

MAC Table Size

16K

Packet Buffer Memory

512KB (4M bits)

產品規格

Interface

Ethernet

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

4 x 100/1000/2500BASE SFP

Console

1 x RJ45

Config Backup

1 x USB (Type A Connector)

Alarm Contact

Relay output, current capacity 0.6A/30VDC

LED Indicators

Per Unit: Power 1 (Green), Power 2 (Green), Fault (Red)

Per Port: Link/Activity (Green)

Physical

Casing Material

Metal (Aluminum)

IP Rating

IP30

Dimensions

45 x 135 x 145mm (W x D x H)

Weight

0.43kg (0.95 lbs)

Installation Type

DIN-rail mounting

Rack mounting (Optional)

Panel mounting (Optional)

Technology

Standards

IEEE 802.3 10BASE-T

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

IEEE 802.3ab 1000BASE-T

IEEE 802.3ad link aggregation control

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

IEEE 802.3x full duplex and flow control

IEEE 802.1D STP

IEEE 802.1p QoS

IEEE 802.1Q Tag VLANs

IEEE 802.1s MSTP

IEEE 802.1w RSTP

IEEE 802.1x Radius

IEEE 802.1ab LLDP

IEEE 802.3az Energy-Efficient Ethernet (EEE)

Forward/Filtering Rate

14,880pps for 10Mbps

148,809pps for 100Mbps

1,488,095pps for 1000Mbps

3,720,238pps for 2500Mbps

Processing Type

Store-and-forward

Auto-negotiation

Half-duplex back-pressure and full-duplex flow control

Auto MDI/MDIX

System Memory

1GB DDR3 SDRAM

Flash Storage

128MB

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

EN 55032

BSMI

EMS

EN 61000-6-2

- IEC 61000-4-2 (ESD)
- IEC 61000-4-3 (Radiated RFI)
- IEC 61000-4-4 (Burst)
- IEC 61000-4-5 (Surge)
- IEC 61000-4-6 (Induced RFI)
- IEC 61000-4-8 (Magnetic field)

Safety

UL 62368

Traffic

NEMA TS2

Railway

EN 50121-4

Vibration

IEC 60068-2-6

Shock

IEC 60068-2-27

Free Fall

IEC 60068-2-31

Environmental

Operating Temp.

-40 to 75°C (-40 to 167°F)

Storage Temp.

-45 to 85°C (-49 to 185°F)

Relative Humidity

5% to 95% (non-condensing)

MTBF

3,330,902 hours

Power

Input

12-48VDC Redundant (Terminal block)

Power Consumption

System only: 6.3W

Full load: 13.2W

Protection

Reverse Polarity Protection

Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

What's Included

Device

Ethernet switch

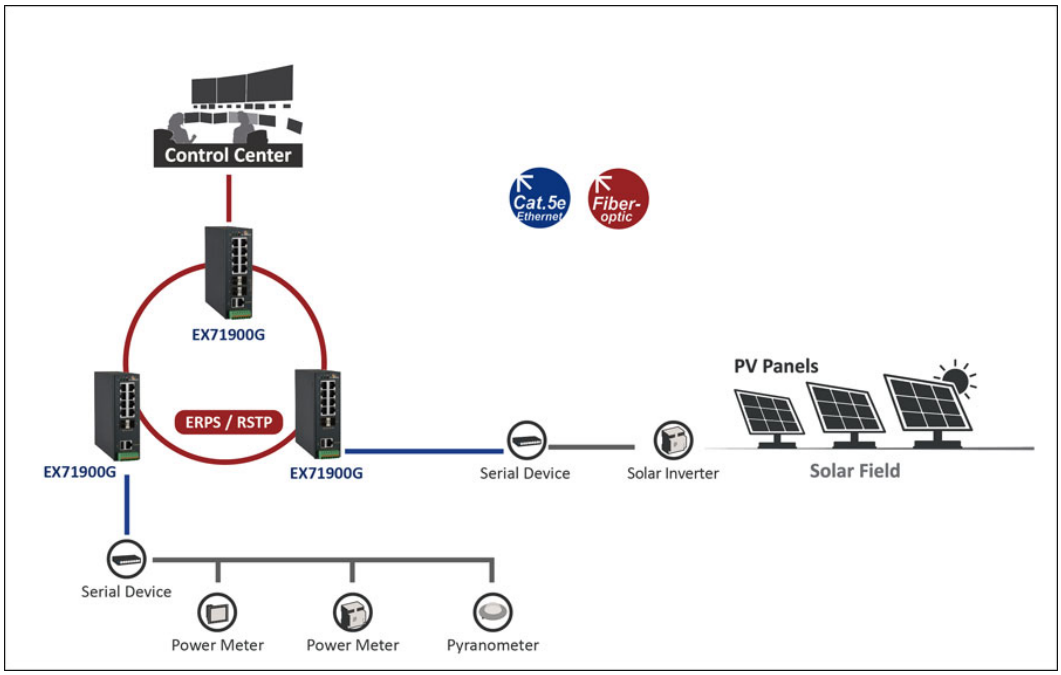
Cables

1 Console cable

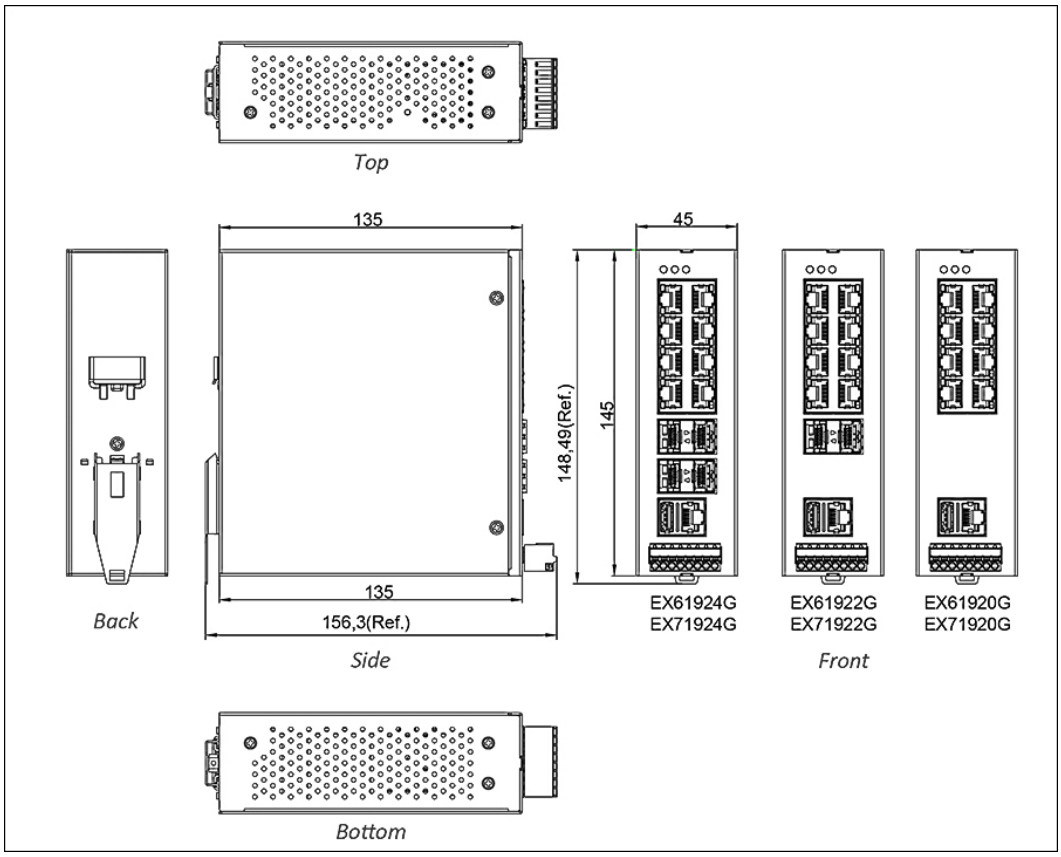
Installation

DIN-Rail mounting kit

產品應用圖


Control Center
Cat.5e Ethernet
Fiber-optic
EX71900G
ERPS / RSTP
EX71900G
EX71900G
Serial Device
Solar Inverter
PV Panels
Solar Field
Serial Device
Power Meter
Power Meter
Pyranometer

產品尺寸圖


Top
135
45
148,49(Ref.)
145
Back
135
156,3(Ref.)
Side
EX61924G
EX71924G
EX61922G
EX71922G
Front
EX61920G
EX71920G
Bottom

訂購型號

Model





	EX71924G-1NT	EX71922G-1NT	EX71920G-1NT
10/100/1000BASE TX埠	8	8	8
100/1G/2.5G Base-SFP埠	4	2	-
工作溫度	-40 to 75°C		
	訂購諮詢	訂購諮詢	訂購諮詢

Accessories

SFP Modules

Model Number	Transmission Speed	Mode	Distance	Operating Temperature	Wavelength	Connector Type	DDM
SFP2IS20M	2500Mbps	Single-mode	20km	-40 to 85°C	1310nm	Duplex LC	✔
SFP2IM2AM	2500Mbps	Multi-mode	160m	-40 to 85°C	850nm	Duplex LC	✔
SFP2XT1AM	2500Mbps	-	100m	-40 to 85°C	-	RJ-45	-
SFPGIM5AM	1000Mbps	Multi-mode	275/550m	-40 to 85°C	850nm	Duplex LC	✔
SFPGIM02M	1000Mbps	Multi-mode	2km	-40 to 85°C	1310nm	Duplex LC	✔
SFPGIS10M	1000Mbps	Single-mode	10km	-40 to 85°C	1310nm	Duplex LC	✔
SFPGIS20M	1000Mbps	Single-mode	20km	-40 to 85°C	1310nm	Duplex LC	✔
SFPGXT1AM	1000Mbps	-	100m	-40 to 85°C	-	RJ-45	-
EX-0155NSP-MB2L-A	100Mbps	Multi-mode	2km	-40 to 85°C	1310nm	Duplex LC	-

SFPMIS20M (DDM)	100Mbps	Single-mode	20km	-40 to 85°C	1310nm	Duplex LC	✔

For more SFP, please visit website: www.etherwan.com/products/sfp-fiber-transceiver

Industrial DIN-Rail Power Supplies

Model Number	Input Voltage	Output Voltage	Description	Operating Temperature
HDR-30-12	85 - 264VAC	12VDC	30W/ 2A DIN Rail 12VDC Industrial Power Supply	-30 to 70°C
HDR-30-24	85 - 264VAC	24VDC	30W/1.5A DIN-Rail 24VDC Industrial Power Supply	-30 to 70°C
EDR-75-48	90 - 264VAC	48VDC	75W/1.6A DIN-Rail 48VDC Industrial Power Supply	-20 to 70°C

For more Power Supplies, please visit website: www.etherwan.com/products/din-rail-power-supply.

Mounting Kits

Part Name	Description	Image
KP-BK78900G	Panel Mounting Bracket	
KR-BK71900G	Rack Mounting Bracket	

© EtherWAN Systems, Inc. All rights reserved. 20261110
EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.