

## EX61900G 系列

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



### 產品介紹

EX61900G 系列展現新一代 2.5G 工業網路交換技術的全面升級——以精巧無風扇設計搭配強大的智慧化管理能力，為工業級網路帶來更高效、更可靠的連線體驗。

產品配備最多 8 個 Gigabit RJ 45 埠與 4 個 2.5G SFP 上行埠，其中光纖埠支援 100Mbps / 1Gbps / 2.5Gbps 三重速度彈性，從既有網路到高速應用皆能輕鬆滿足，完美因應頻寬不斷提升的需求。

其輕薄、省空間的機構設計，結合多種類型的安裝配件，讓部署更直覺、更靈活；即便是在狹窄或受限的工業環境，也能快速整合，不必在效能或功能上妥協。專為關鍵任務與嚴苛場域而設計，EX61900G 同時整合 Layer 2 網管能力與 Layer 3 進階功能，提供高可靠度與一致性的傳輸效能，確保在智慧城市基礎建設、運輸系統與工廠自動化等應用中，都能維持穩定、不中斷的網路運作。

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

-10 至 60°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

### Railway

EN 50121-4

### Vibration

IEC 60068-2-6

### Shock

IEC 60068-2-27

### Free Fall

IEC 60068-2-31

## + Environmental

### Operating Temp.

-10 to 60°C (-14 to 140°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](http://www.etherwan.com/support/warranty-policy)

## + What's Included

### Device

Ethernet switch

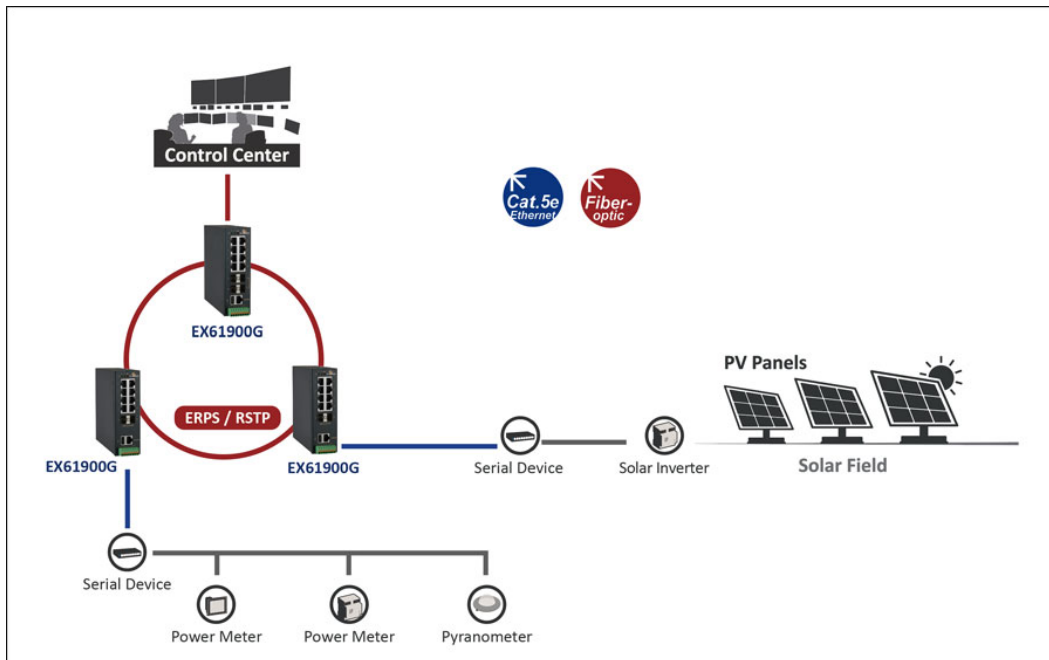
### Cables

1 Console cable

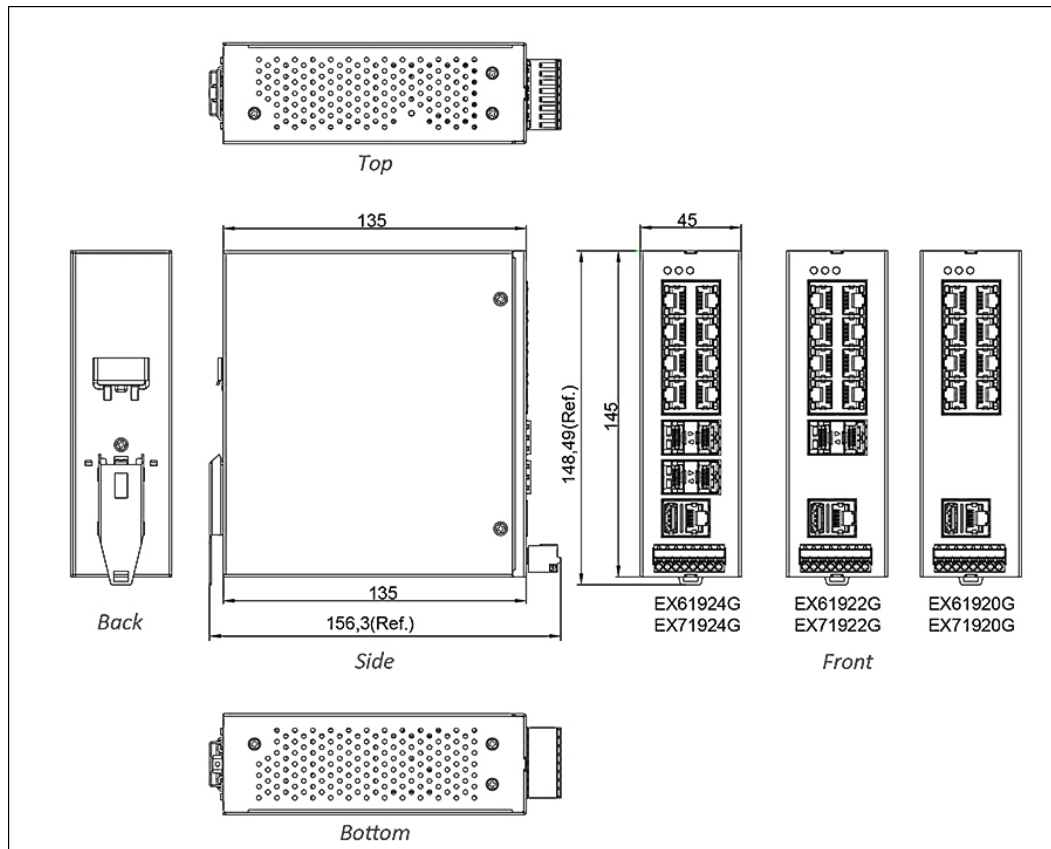
### Installation

DIN-Rail mounting kit

## 產品應用



## 產品尺寸圖



## 訂購型號

### + Model


**EX61924G-1NT**
**EX61922G-1NT**
**EX61920G-1NT**

|                       |                      |                      |                      |
|-----------------------|----------------------|----------------------|----------------------|
| 10/100/1000BASE TX埠   | 8                    | 8                    | 8                    |
| 100/1G/2.5G Base-SFP埠 | 4                    | 2                    | -                    |
| 工作溫度                  | -10 to 60°C          |                      |                      |
|                       | <a href="#">訂購諮詢</a> | <a href="#">訂購諮詢</a> | <a href="#">訂購諮詢</a> |

### + 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          | -   |
| EX-1250TSP-MB5LS | 1000Mbps           | Single-mode | 20km       | 0 to 70°C             | 1310nm     | Duplex LC      | ✓   |
| SFPGIS10C (DDM)  | 1000Mbps           | Single-mode | 10km       | 0 to 70°C             | 1310nm     | Duplex LC      | ✓   |
| SFPGIM02C (DDM)  | 1000Mbps           | Multi-mode  | 1Km, 2Km   | 0 to 70°C             | 1310nm     | Duplex LC      | ✓   |
| SFPGIM5AC (DDM)  | 1000Mbps           | Multi-mode  | 275m, 550m | 0 to 70°C             | 850nm      | Duplex LC      | ✓   |
| SFPGXT1AM        | 1000Mbps           | -           | 100m       | -40 to 85°C           | -          | RJ-45          | -   |
| SFPMSS15C        | 100Mbps            | Single-mode | 15km       | 0 to 70°C             | 1310nm     | Duplex LC      | -   |

|                    |         |            |     |           |        |           |   |
|--------------------|---------|------------|-----|-----------|--------|-----------|---|
| SFPMIM02C<br>(DDM) | 100Mbps | Multi-mode | 2km | 0 to 70°C | 1310nm | Duplex LC | ✓ |
|--------------------|---------|------------|-----|-----------|--------|-----------|---|

For more SFP, please visit website: [www.etherwan.com/tw/products/sfp-fiber-transceiver](http://www.etherwan.com/tw/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<br>12VDC Industrial<br>Power Supply  | -30 to 70°C           |
| HDR-30-24    | 85 - 264VAC   | 24VDC          | 30W/1.5A DIN-Rail<br>24VDC Industrial<br>Power Supply | -30 to 70°C           |
| EDR-75-48    | 90 - 264VAC   | 48VDC          | 75W/1.6A DIN-Rail<br>48VDC Industrial<br>Power Supply | -20 to 70°C           |

For more Power Supplies, please visit website: [www.etherwan.com/tw/products/din-rail-power-supply](http://www.etherwan.com/tw/products/din-rail-power-supply).

### + Mounting Kits

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

