

Huiling - IG5 SV 系列-TW

IEC 61850-3/IEEE 1613 強固級網管型 24 埠 Gigabit (8*PoE) + 4 埠1G/10G SFP+ 乙太網路交換器



產品介紹

IG5 SV 強固級網管型交換器在原有 [IG5 Rack系列](#) 的基礎上進一步升級，提供更加卓越的表現。IG5 SV 在 16埠 和 8埠 的多種連接埠組合中，新增了具備 **8個 IEEE 802.3af/at PoE 連接埠**的選項，每埠可提供高達30W的功率輸出，並搭配智慧控制器有效分配 **90W總功率預算**。縮小20%的機身設計、強固的IP40金屬機殼、與 **24 ~ 48VDC** 的輸入電壓，使得 **IG5 SV 強固級網管型交換器**能在空間有限的環境中靈活安裝，特別適合需要高電磁安全防護和網路供電配置的應用。

此外，IG5 SV交換器支持第二層管理功能和第三層路由設置，滿足大型網路環境對高效數據傳輸的需求。**內建數位I/O和繼電器控制埠**，擴充了偵測與告警系統，提供靈活多元的網路建構方案。**所有型號均符合 IEC 61850-90-4 GOOSE 訊息傳輸要求及 IEEE 1588v2 精確時間協定 (PTP)**，確保電力系統的快速反應和高可靠性。IG5 SV **提供10G頻寬，並符合 IEC 61850-3、IEEE 1613 及 IEC 60255-27 標準**，具備高達 **5kV的脈衝保護**，是城市基礎設施、智慧交通、工業物聯網和智慧能源管理等關鍵應用的理想選擇。

[什麼是第三層交換器 \(Layer 3 Switch\) ?](#)

產品亮點

+ 高頻寬和多介面配置

24 埠 Full Gigabit 全千兆高頻寬連接
4 個獨立 SFP+ 埠支援 1G/10G 光纖連接
128Gbps 全雙工交換容量
內建數位 I/O 控制埠銜接偵測、告警系統

+ PoE 功能

提供 8 個 IEEE 802.3 af/at type 2 PoE 埠
每埠最大 30W 輸出, 總功率預算 90W
支援 PoE 看門狗 (PoE Watchdog) 監控功能

+ 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

+ 靈活的安裝

支援機架式和面板式安裝
整合式通訊狀態面板
便於電纜管理

+ 支援變電站通訊傳輸與時間同步

符合 IEC61850-90-4 GOOSE 與多播訊息傳輸
所有連接埠皆支援 IEEE 1588v2 PTP 協議
支援 One-Step & Two-Step 對等延遲量測機制
可作為透明時鐘的網橋裝置運行

+ 適用於不通風和惡劣環境的強固設計

-40至 75°C (-40至 167°F)
寬工作溫度範圍操作符合 IEC60068-2-2 環境類型測試
高耐溫衝擊和高雜訊抗噪通過 IEC 61850-3 和 IEEE
1613 標準測試
通過 IEC 60255-27 電氣保護安全測試

軟體功能

+ Interface

CLI, Telnet, Web GUI

+ Management

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

+ Security

MAC Address Filtering
Enable/Disable Port
Storm Control
System Logging
IEEE 802.1x LAN Access Control
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, up to 4096 Entries)
IPSG (IP Source guard)
DAI (Dynamic ARP Inspection)
DHCP Snooping

+ 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
EtherWAN's Alpha-Ring network fault recovery

VLANs

IEEE 802.1Q Tag VLANs
GVRP
GMRP

Link Aggregation

Static Trunk (4 groups)
IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

+ Layer 3 Features

IP Packet Routing

Maximum number of routes in hardware:
512 entries
Static Routing
RIP v1/v2
OSPF v2

Routing Redundancy

VRRPv2

+ 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

128Gbps

Forwarding Rate

95.23Mpps

Max VLANs

256 (4096 VID)

Jumbo Frame Size

9KB

MAC Table Size

16K

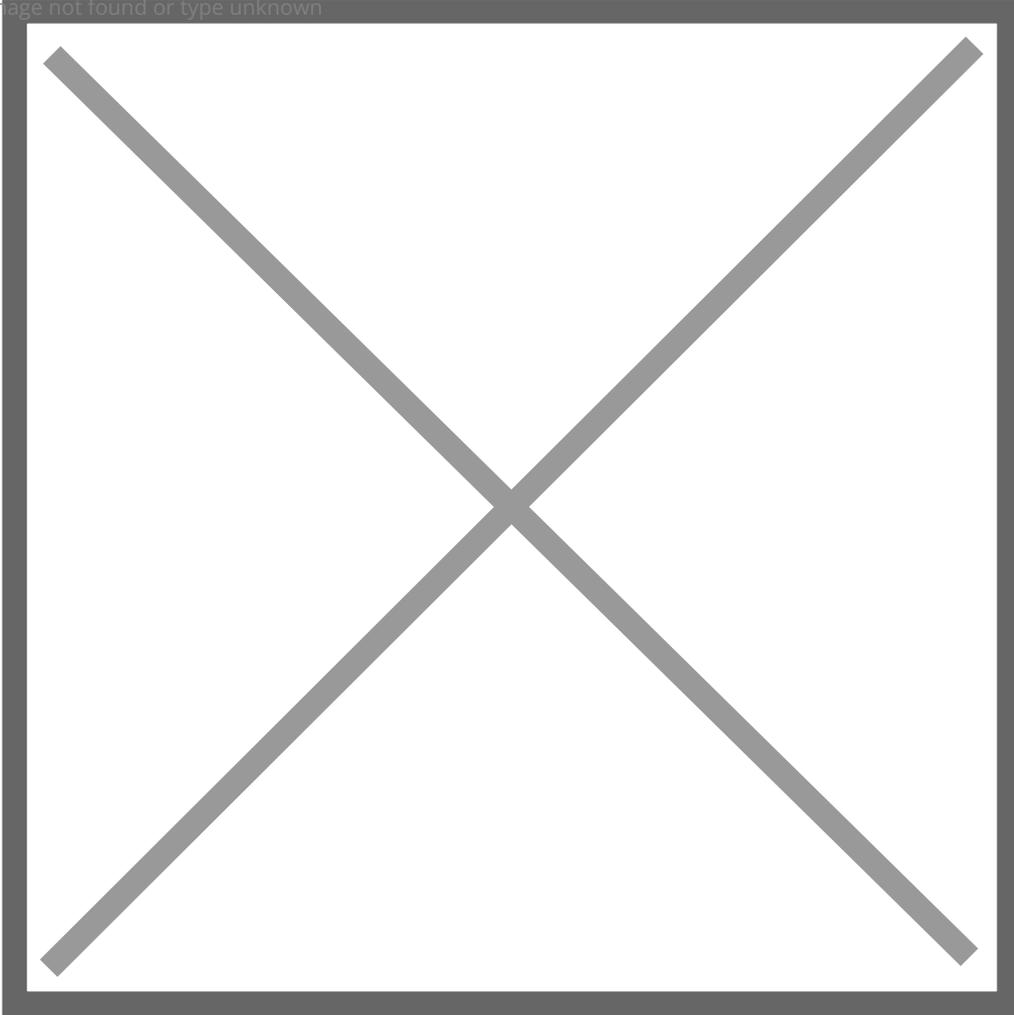
Packet Buffer Memory

12M bits

產品尺寸圖

123

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訂購型號

+ PoE Models

IG5-P8084FTE	8-port 10/100/1000BASE-T(X) PoE + 8-port 10/100/1000BASE-T(X) + 8-port 100/1000BASE SFP + 4-port 1G/10G SFP+ Managed Ethernet Switch
IG5-P8164FTE	8-port 10/100/1000BASE-T(X) PoE + 16-port 100/1000BASE SFP + 4-port 1G/10G SFP+ Managed Ethernet Switch

+ Non-PoE Models

IG5-24004FTE	24-port 10/100/1000BASE-T(X) + 4-port 1G/10G SFP+ Managed Ethernet Switch
IG5-16084FTE	16-port 10/100/1000BASE-T(X) + 8-port 100/1000BASE SFP + 4-port 1G/10G SFP+ Managed Ethernet Switch
IG5-08164FTE	8-port 10/100/1000BASE-T(X) + 16-port 100/1000BASE SFP + 4-port 1G/10G SFP+ Managed Ethernet Switch
IG5-00244FTE	24-port 100/1000BASE SFP + 4-port 1G/10G SFP+ Managed Ethernet Switch

+ Accessories

Part Number	Speed Info	Mode	Distance	Operating Temperature	Wavelength	DDM
EX-0155NSP-MB2L-A	100Mbps	Multi	2km	-40 to 85°C	1310nm	-
SFPMIS20M	100Mbps	Single	20km	-40 to 85°C	1310nm	✓
SFPGIM5AM	1000Mbps	Multi	275m/550m	-40 to 85°C	850nm	✓
SFPGIM02M	1000Mbps	Multi	2km	-40 to 85°C	1310nm	✓
SFPGIS10M	1000Mbps	Single	10km	-40 to 85°C	1310nm	✓
SFPTIM3AM	10Gbps	Multi	300m	-40 to 85°C	850nm	✓
SFPTIM3AM	10Gbps	Single	10km	-40 to 85°C	1310nm	✓

+ For more SFP, please visit website:

Hardened 100BASE SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
Hardened Gigabit SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
Hardened 10G SFP+ Modules	www.etherwan.com/jp/products/sfp-fiber-transceiver
DIN-Rail Power Supplies	www.etherwan.com/jp/products/din-rail-power-supply



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