



XMG1930 系列

24埠2.5G L2智慧型網管交換器包含4個10G Multi-Gigabit
並具備2個SFP+上行介面

XMG1930 系列是 Multi-Gigabit L2 智慧型網管交換器的成員之一，包含有PoE和無PoE 2種型號。此高效能交換器系列除了具備 24 個高密度 2.5G 埠之外，交換器支援良好的擴展性和彈性，提供4個10G Multi-Gigabit埠以連接WiFi 6/6E AP，或連接具2個額外10G光纖埠的10G伺服器。PoE型號XMG1930-30HP同時支援具有700瓦的高功率電力的PoE+和PoE++，能夠靈活彈性部署WiFi 6/6E和WiFi 7無線基地台；然而，非PoE型號 XMG1930-30則非常適用於高速網路服務供應商將每個傳統的1G用戶升級到2.5G。

優勢

彈性靈活選擇網路升級的方式

XMG1930 系列交換器支援 IEEE 802.3bz標準，包含可選擇 2.5G 和 10G 埠，能夠在現有的標準線路基礎架構上提供Multi-Gigabit技術以節省您的投資成本，同時提供高達10倍的頻寬容量，無需昂貴費用和破壞電纜等級。新型的Multi-Gigabit交換器的每個銅纜埠能夠自動偵測連接設備所需的速率。而且Multi-Gigabit交換器對於每個獨立的埠口以不同的連線速度運行是很常見的，因此 XMG1930 系列具有獨特的5色LED燈設計，可直覺性的指示每個埠口的連接速度。



Multi-Gigabit支援2.5G和10G，能夠靈活部署高密度的Multi-Gigabit



高達6個10G上行介面，包含銅纜埠和光纖埠選配，為網路提供絕佳的擴展彈性度



PoE模式支援802.3bt PoE++ (60瓦電力)和802.3at PoE+高達700瓦高功率電力，能夠輕鬆連接WiFi 6/6E AP或是您的IoT連網設備



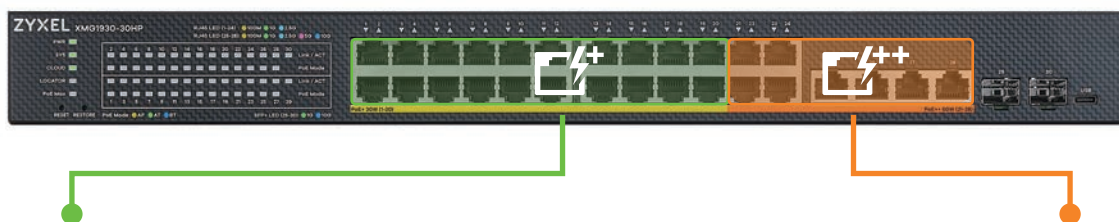
Nebula支援全系列產品，從有線，無線和資安設備，帶來簡單一致的雲端網路體驗



從購買第一天起，透過單機網頁式管理介面(GUI)，能夠存取和管理所有交換器功能

優異的PoE為高性能WiFi 6 AP的墊腳石

將商用無線網路基礎設施升級到WiFi 6/6E需要可靠的網路交換器以提供完整的骨幹服務。XMG1930-30HP搭配IEEE 802.3bt (PoE++) 8個埠口，每個埠口提供高達60瓦的電力，以及IEEE 802.3at含20個埠口，每個埠口提供高達30瓦的電力，以滿足WiFi 6/6E AP各種應用。也為將來WiFi 7技術的部署做好了準備。選擇使用 Zyxel 多種WiFi 6/6E 系列AP，可發揮700 W電力系統的最佳性能。



WiFi 6/6E AP	Ethernet	Max Power
WAX620D-6E	2.5G	22 W
NWA220AX-6E	2.5G	22 W
WAX630S	2.5G	22 W
WAX610D	2.5G	22 W
NWA210AX	2.5G	22 W

WiFi 6/6E AP	Ethernet	Max Power
WAX640S-6E	2.5G	26 W
WAX650S	5G	25.5 W

NebulaFlex – 以您的方式輕鬆管理

XMG1930系列支援NebulaFlex技術以提供更多的靈活性，特別是對於那些猶豫是否需要設置雲端網路的人士是一大福音。您可以很輕易的在單機模式和免費Nebula智慧雲管理平台間自由切換網路管理模式。Nebula雲端管理平台能夠統一管理Zyxel產品；單機網頁式管理介面(web GUI)在最初始即可設定交換器的所有功能和配置選項。

Nebula 雲端網路生態系統

透過網頁介面和行動APP的視覺化安裝指南，能夠輕易地將交換器和其他網路設備設置到Nebula。中小企業用戶可以利用Nebula集中管理和獲得即時網路資訊的優勢，能夠隨時隨地的輕鬆控制XMG1930智慧網管交換器以及無線基地台、資安防火牆和5G/LTE行動路由器——您無需額外購買軟體或硬體控制器，即可獲得簡易及完整的網路體驗。



內外兼具的智慧型網管交換器

L2智慧型網管交換器主要的設計特色為您無需學習複雜的指令介面(CLI)，只需使用友善的網頁管理介面進行更深入的設定作業，例如進階QoS、LAG、IPv6 和IPv4/IPv6 L3靜態路由。單機網頁管理所支援的功能已包含在交換器的購買價格中。

型號清單

XMGI930-30

24埠2.5G L2智慧型網管交換器

含4個10G Multi-Gigabit埠和2個SFP+上行介面

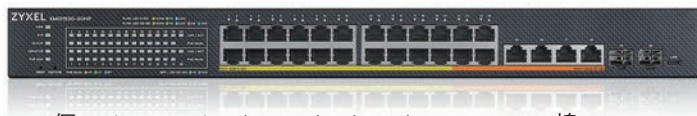


- 24個Multi-Gigabit (100M/1G/2.5G) RJ-45埠
- 4個10G Multi-Gigabit (1G/2.5G/5G/10G) RJ-45埠
- 2個1G SFP/10G SFP+插槽

XMGI930-30HP

24埠2.5G L2 PoE智慧型網管交換器

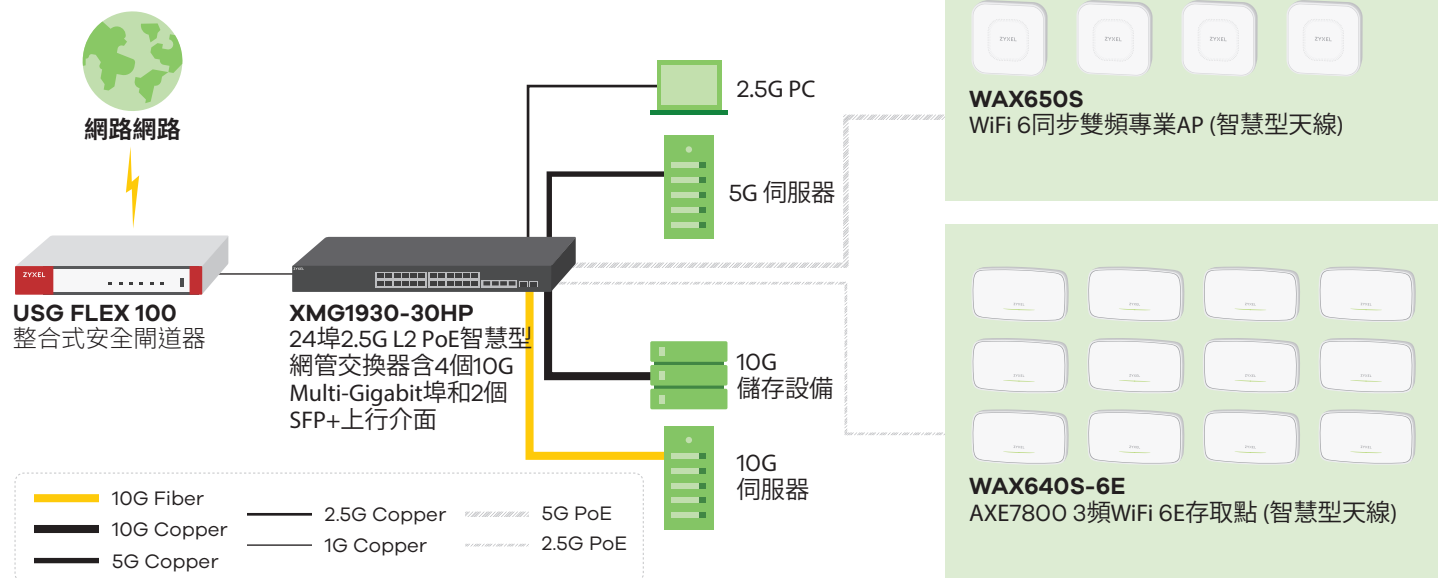
含4個10G Multi-Gigabit埠和2個SFP+上行介面



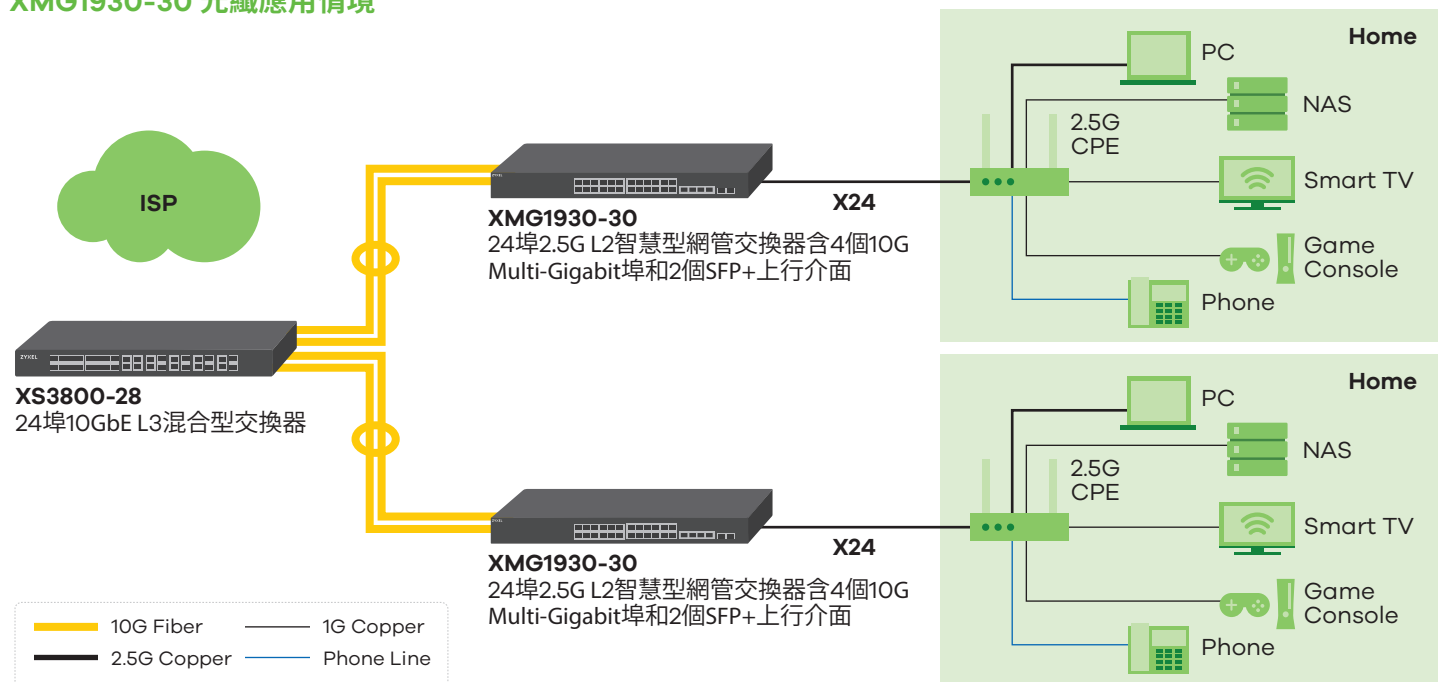
- 20個Multi-Gigabit (100M/1G/2.5G) RJ-45 PoE+埠
- 4個Multi-Gigabit (100M/1G/2.5G) RJ-45 PoE++ (60瓦)埠
- 4個10G Multi-Gigabit (1G/2.5G/5G/10G) RJ-45 PoE++ (60瓦)埠
- 2個1G SFP/10G SFP+插槽
- PoE總供電量：700瓦

應用圖示

XMGI930-30HP 單機管理



XMGI930-30 光纖應用情境



規格

Model		XMG1930-30	XMG1930-30HP
Product name		24-port 2.5G Smart Managed L2 Switch with 4 10G Multi-Gigabit Ports and 2 SFP+ Uplink	24-port 2.5G Smart Managed L2 PoE Switch with 4 10G Multi-Gigabit Ports and 2 SFP+ Uplink
Switch class		Smart Managed	Smart Managed
Port Density			
Total port count		30	30
100M/1G/2.5G Ethernet (RJ-45)		24	24
1G/2.5G/5G/10G Ethernet (RJ-45)		4	4
1G SFP/10G SFP+		2	2
PoE			
PoE ports		-	28
Total PoE budget (Watts)		-	700
IEEE 802.3at (PoE+)		-	Port 1 - 20
IEEE 802.3bt (PoE++, 60 W)		-	100M/1G/2.5G: Port 21 - 24 1G/2.5G/5G/10G: Port 25 - 28
Performance			
Switching capacity (Gbps)		240	240
Forwarding rate (Mpps)		178.5	178.5
Packet buffer (byte)		2 MB	2 MB
MAC address table		16 K	16 K
Jumbo frame (byte)		12 K	12 K
L3 forwarding table (Max. IPv4/Max. IPv6)		512/512	512/512
Routing table		32	32
IP interface		32/32	32/32
Flash/RAM		32 MB/256 MB	32 MB/256 MB
Power			
Input		100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz
Max. power consumption (watt)		671	864.1
Physical Specifications			
Item	Dimensions (WxDxH)(mm/in.)	441 x 270 x 44/17.36 x 10.63 x 1.73	441 x 330 x 44/17.36 x 12.99 x 1.73
	Weight (kg/lb.)	3.81/8.4	4.85/10.69
Packing	Dimensions (WxDxH)(mm/in.)	622 x 357 x 109/24.49 x 14.06 x 4.29	592 x 505 x 97/23.31 x 19.88 x 3.82
	Weight (kg/lb.)	4.91/10.82	6.04/13.32
Included accessories		- Power cord - Power adapter - Rack mounting kit	- Power cord - Power adapter - Rack mounting kit
ESD/Surge Protections			
Ethernet port surge protection		1 KV	2 KV
Power supply surge protection	Line-GND	4 KV	6 KV
	Line-Line	2 KV	6 KV
Ethernet port ESD protection (air/contact)		8 KV/4 KV	8 KV/4 KV
Environmental Specifications			
Operating	Temperature	-20°C to 50°C/-4°F to 122°F	-20°C to 50°C/-4°F to 122°F
	Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
Storage	Temperature	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F
	Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
MTBF (hr)		532,217.59	587,922.31
Heat dissipation (BTU/hr)		671	864.1
Acoustic noise (min/max, dBA)		26/47.6	27.9/51.6

特點

Standard Compliance

- IEEE 802.3z 1000BASE-X*
- IEEE 802.3ab 1000BASE-T Ethernet*
- IEEE 802.3an 10G BASE-T Ethernet*
- IEEE 802.3bz 2.5GBASE-T/5GBASE-T*
- IEEE 802.3ae 10 Gbit/s Ethernet over fiber*
- IEEE 802.3af PoE*
- IEEE 802.3at PoE plus*
- IEEE 802.3bt (60 W) PoE over 4 pair*
- IEEE 802.3x flow control
- IEEE 802.3ad LACP aggregation*
- IEEE 802.1D Spanning Tree Protocol (STP)*
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)*
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- IEEE 802.1p Class of Service (CoS) prioritization*
- IEEE 802.1X port authentication*

Resilience and Availability

- IEEE 802.1D Spanning Tree Protocol (STP)*
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)*
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- IEEE 802.3ad LACP* (Max # Trunks/Links per Trunk): 15/8
- Loop guard*
- Dual configuration files
- Dual images*

Traffic Control

- 802.1Q Static VLANs*/Dynamic VLANs: 1K/4K
- Support up to 4K VLAN ID*
- Independent VLAN Learning (IVL)*
- L2PT
- Port-based VLAN*
- Voice VLAN*
- VLAN trunking
- GVRP

Security

- 802.1X*
- Port security*
- MAC authentication*
- Static MAC forwarding
- SSL
- Static ARP
- Policy-based security filtering
- Port isolation

- MAC search
- Guest VLAN*
- PPPoE relay agent
- PPPoE option 82
- PPPoE IA
- Interface related trap enable/disable (by port)
- CPU protection
- SHA2 HTTPS certification*
- Login authentication by RADIUS*
- RADIUS accounting
- Authorization on RADIUS*
- Multiple RADIUS servers*
- 802.1x VLAN and bandwidth assignment by RADIUS*
- ACL packet filtering (IPv4/IPv6)

Quality of Service (QoS)

- No. of hardware queues per port: 8*
- 802.1p queuing methods: SPQ, WRR, WFQ*
- Storm control: broadcast, unknown L2MC, unknown unicast (DLF)*
- Rate limiting per port
- Policy-based rate limiting
- Policy-based prioritization

Layer 2 Multicast

- L2 multicast group: 1K
- IGMP snooping (v1, v2, v3)*
- Configurable IGMP snooping timer and priority
- IGMP snooping statistics
- IGMP throttling
- IGMP filtering
- Static multicast

Routing

- Static route
- Assigned DHCP relay with specific source IP interface

Manageability

- SNMP v1, v2c, v3
- SNMP trap group
- RMON (1, 2, 3, 9)
- Syslog (IPv4/v6)*
- IEEE 802.1AB LLDP
- IEEE 802.1AB LLDP-MED
- Custom default
- Display port utilization*
- Support NebulaFlex™ for hybrid mode

IPv6 Management

- IPv6 over Ethernet (RFC 2464)
- IPv6 addressing architecture (RFC 4291)
- Dual stack (RFC 4213)
- ICMPv6 (RFC 4884)
- Path MTU (RFC 1981)
- Minimum path MTU size of 1280 (RFC 5095)
- Encapsulation for maximum MTU of 1500
- Neighbor discovery (RFC 4861)
- DHCPv6 relay
- Default DHCP client mode*
- Duplicated Address Detection (DAD)

Device Management

- Standalone management by Web interface
- Cloud management by Nebula Control Center*
- Management through Telnet
- Management through Web, SNMP
- Firmware upgrade by FTP/Web
- Configuration saving and retrieving
- Multiple login supported
- Configure clone
- DHCP relay per VLAN
- DHCP client IPv4*
- DHCP client IPv6
- DHCP option 82
- Daylight saving*
- NTP Server (IPv4/IPv6) – Support DNS format
- Scheduled PoE*
- PoE default consumption mode*
- PoE power management extended configuration*
- Web login warning page
- Restore to last custom default

MIB

- Zyxel private common MIB
- RFC 1066 TCP/IP-based MIB
- RFC 1213, 1157 SNMPv2c/v3 MIB
- RFC 1493 bridge MIB
- RFC 1643 Ethernet MIB
- RFC 1757 RMON Group 1, 2, 3, 9
- RFC 2011, 2012, 2013 SNMPv2 MIB
- RFC 2233 SMIv2 MIB
- RFC 2358 Ethernet-like MIB
- RFC 2674 bridge MIB extension
- RFC 2819, 2925 remote management MIB
- RFC 3621 power Ethernet MIB

- RFC 4022 management information base for transmission control protocol
- RFC 4113 management information base for user datagram protocol
- RFC 4292 IP forwarding table MIB
- RFC 4293 Management Information Base (MIB) for IP

Certifications

- Safety
 - LVD
 - BSMI Safety
- EMC
 - FCC Part 15 (Class A)
 - CE (Class A)
 - BSMI EMC
- RoHS

Zyxel One Network

ZON Utility*

- Discovery of Zyxel switches, APs and gateways
- Centralized and batch configurations
 - IP configuration
 - IP renew
 - Device factory reset
 - Device reboot
 - Device locating
 - Web GUI access
 - Password configuration
 - One-click quick association with Zyxel AP Configurator (ZAC)
- Automatic detection of the latest firmware
- Displays device serial number and hardware version
- Cloud mode on/off option for Hybrid series devices

Smart Connect

- Discover neighboring devices
- One-click remote management access to the neighboring Zyxel devices
- Reset neighboring devices remotely to factory defaults
- Power cycle neighboring powered devices (PoE switches only)

Warranty

- Limited life-time warranty**

* Cloud and standalone modes supported features.

** Warranty terms, service availability, and service response times may vary from country or region to country or region.

配件

光電轉換模組(選購)

型號	介面傳輸速度	連接介面	波長	最大傳輸距離	DDMI
SFP10G-SR	10-Gigabit SFP+	Duplex LC	850 nm	0.3 km (984 ft)	Yes
SFP10G-SR-E	10-Gigabit SFP+	Duplex LC	850 nm	0.3 km (984 ft)	Yes
SFP10G-LR	10-Gigabit SFP+	Duplex LC	1310 nm	10 km (10936 yd)	Yes
SFP10G-LR-E	10-Gigabit SFP+	Duplex LC	1310 nm	10 km (10936 yd)	Yes
SFP-1000T	Gigabit	RJ-45	-	0.1 km (109 yd)	-
SFP-SX-D	Gigabit	Duplex LC	850 nm	0.55 km (601 yd)	Yes
SFP-SX-D-E	Gigabit	Duplex LC	850 nm	0.55 km (601 yd)	Yes
SFP-LX-10-D	Gigabit	Duplex LC	1310 nm	10 km (10936 yd)	Yes
SFP-LX-10-D-E	Gigabit	Duplex LC	1310 nm	10 km (10936 yd)	Yes
SFP-LHX1310-40-D	Gigabit	Duplex LC	1310 nm	40 km (43744 yd)	Yes
SFP-ZX-80-D	Gigabit	Duplex LC	1550 nm	80 km (87488 yd)	Yes
SFP-BX1310-10-D	Gigabit	Single LC	1310 nm (Tx); 1490 nm (Rx)	10 km (10936 yd)	Yes
SFP-BX1310-E	Gigabit	Single LC	1310 nm (TX); 1550 nm (RX)	20 km (21872 yd)	Yes
SFP-BX1490-10-D	Gigabit	Single LC	1490 nm (Tx); 1310 nm (Rx)	10 km (10936 yd)	Yes
SFP-BX1550-E	Gigabit	Single LC	1550 nm (TX); 1310 nm (RX)	20 km (21872 yd)	Yes

Direct Attach Cables (Optional)

Model	Connector	Cable Length
DAC10G-1M	SFP+ to SFP+	1 m (39.37 inch)
DAC10G-3M	SFP+ to SFP+	3 m (118.11 inch)

如需更詳盡的產品資訊，請至兆勤科技官網 www.zyxel.com

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