

DATA SHEET

24+2+1F Full Gigabit Smart POE Switch



【Product Overview】

S2421G series unmanaged PoE switches have 26 Gigabit Ethernet ports + 1 Gigabit uplink SFP optical port, of which ports 1-24 support IEEE 802.3af/at standard PoE power supply, and the single-port PoE power reaches 30W. SG2421Q service ports all support 4KV electrostatic lightning protection, and the downlink ports support POE watchdog automatic restart troubleshooting function, port VLAN isolation function, and one-key 10m/250m long-distance transmission mode (1-8 ports) and other practical function switches, making use, operation and maintenance simpler and more efficient. As a PoE power supply device, it can automatically detect and identify the powered device that meets the standard and supply it with network cables. It can supply power to POE terminal equipment such as wireless APs, webcams, IP phones, and video access control intercoms through network cables, meeting the network environment that requires high-density PoE power supply, and is suitable for hotels, campuses, communities, and small and medium-sized enterprises to build cost-effective networks.

Non-network management model, plug and play, no configuration, easy to use.

【Product Feature】

- Single-port PoE power up to 30W, af/at adaptive, widely compatible with a variety of network terminals;
- Double optical port uplink port, long-distance transmission, suitable for various ring network/chain network networking cascades and expansion, easier networking;
- Full gigabit high rate transmission, 10/100M compatible, high bandwidth transmission is stable and guaranteed to meet different user needs;
- 1~8 ports supports 10M/250m long-distance transmission, automatically optimises the network, and easily solves long-distance point communication and power supply problems;
- 1~16 ports support PoE watchdog function, automatic restart, intelligent troubleshooting, reducing the number of visits for maintenance and lowering after-sales O&M costs;
- Supports port VLAN to suppress network storms and improve network transmission stability;
- Enterprise-class high-bandwidth switching chip, high backplane, large cache, reduce network congestion;
- Supports IEEE802.3X full duplex intelligent flow control for lag-free HD transmission of large bit streams;
- Supports MAC address auto learning and updating, and port auto flip (Auto MDI/MDI-X) function;
- The service port supports 4KV anti-surge (lightning) protection, PoE short-circuit and overload protection for safer and more secure use;
- Steel forging metal shell, shielding interference, strong heat dissipation, strong, rust-proof more durable;
- Plug and play, no configuration required, easy and simple to use.

【Technical Specifications】

Model		S2421G
Port Characteristics		
Fixed Port	Downlink port	24*10/100/1000Base-T RJ45 network ports
	Uplink port	2* 10/100/1000Base-T RJ45 network ports 1* 1000M SFP optical port slot
	PoE port	1-24 support af/at standard PoE power supply with a transmission distance 100 meters
Port Characteristics		1-26 port 10/100/1000M adaptive, full/half duplex MDI/MDI-X adaptive
Twisted Pair Transmission		10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
Optical Port Characteristics		Gigabit SFP fibre optic interface, default does not support optical module, need to purchase separately, (optional order mode/multimode, single/dual fibre optical module, LC/SC)
Fibre-optic Cable		Multimode : 850nm/0~550M, 50µm/125µm&62.5µm/125µm Single mode : 1310nm/0~40KM, 1550nm/0~120KM,9.5µm/125µm
Function Switch		Tranche1: VLAN Toggle to "ON" to realise the function of power supply port isolation, default "OFF"
		Tranche2: PoE Watchdog Toggle to "ON" to enable the PoE auto restart function of the power supply port, default "OFF"
		Tranche3: Extend Toggle to "ON" to enable (1-8 power supply ports) 10M/ 250m long distance function, default "OFF"
Switching Chip Parameter		
Network Management Type		Unmanaged switch
Networking Protocol		IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3x Flow Control; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE 802.3af DTE Power via MDI; IEEE 802.3at DTE Power via MDI;
Transfer Mode		Store-and-forward (top speed)
Backplane Bandwidth		52Gbps (non-obstructive)
Packet Forwarding Ratio@64byte		40.17Mpps

MAC Address Table	8K
Packet Forwarding Cache	4Mbits
Giant Frame	10Kbytes
Indicator Light	Power indicator: PWR (green); Network indicator: 1-26 (green); Optical port indicator: 27(green).
MTBF	100,000 hours
POE and Power Characteristics	
POE Port	1-24 ports support IEEE802.3af/at standard POE power supply
Power Supply Pins	Default 1/2(+), 3/6(-) 4-pole power supply
Maximum PoE power per port	30W, standard IEEE802.3af/at
Total Power/ Input Voltage	400W (AC100-240V)
Power Consumption	Standby power consumption: <15W; Full load power consumption: <300W
Matching power supply	Built-in switching power supply AC: 100~240V 50-60Hz 5.5A
Physical Specification Parameters	
Operating Temperature/Humidity	-20~+55°C; 5%~90% RH,non-condensing
Storage Temperature/Humidity	-40~+75°C; 5%~95% RH,non-condensing
Appearance Size (L*W*H)	310mm*205mm*44mm
Net/Gross weight	1.77kg / 2.31kg
Installation Method	Desktop, rack mount
Product Certification And Warranty	
Lightning Protection / Protection Level	Port lightning protection: 4KV 8/20us; Protection Level: IP30
Safety Certification	CE,FCC,RoHS
Warranty Period	3 years

【Packing List】

	Item Name	Quantity	Unit
Packing List	24+2+1F Full Gigabit Smart POE Switch	1	set
	AC Power Cord	1	piece
	Mounting lug	1	pair
	Quick start guide	1	piece
	Warranty Card and Certificate of Conformity	1	piece

【Ordering Information】

Equipment Name	Equipment Information	Standard Power Supply
S2421G	Unmanaged 26 10/100/1000M network ports + 1 Gigabit SFP optical port slot PoE switch, 1-24 ports support IEEE 802.3af/at international standards, support PoE watchdog automatic restart, support port VLAN isolation, support 10m/ 250m long-distance transmission, Built-in power supply for desktop and 1U rack mounting	Input: AC100-240V Output: DC52V

【Option Information】

Name	Model number	Descriptions	Unit
1.25 Goptical module	SFP-1.25G-SM1310/1550-SC	SFP optical module, 1.25G, single-mode single-fibre SC interface, transmission distance 3/20/40/60/80/100/120km optional, support for DDM function, support for hot-swap.	pair
	SFP-1.25G-SM1310/1550-LC	SFP optical module, 1.25G, single-mode single-fibre LC interface, transmission distance 3/20/40/60/80/100/120km optional, support DDM function, support hot-swap.	pair
	SFP-1.25G-LX-SM1310	SFP optical module, 1.25G, single-mode dual-fibre LC interface, transmission distance 3/20/40/60/80/100/120km optional, support for DDM function, support for hot-swap.	piece
	SFP-1.25G-SX-MM850	SFP optical module, 1.25G, multi-mode dual-fibre LC interface, transmission distance 550M, support DDM function, support hot-swap.	piece
Electrical Port Module	SFP-1000Base-T-100M	1.25G SFP optical module to 10/100/1000M RJ45 network port, (optical to electrical)	piece