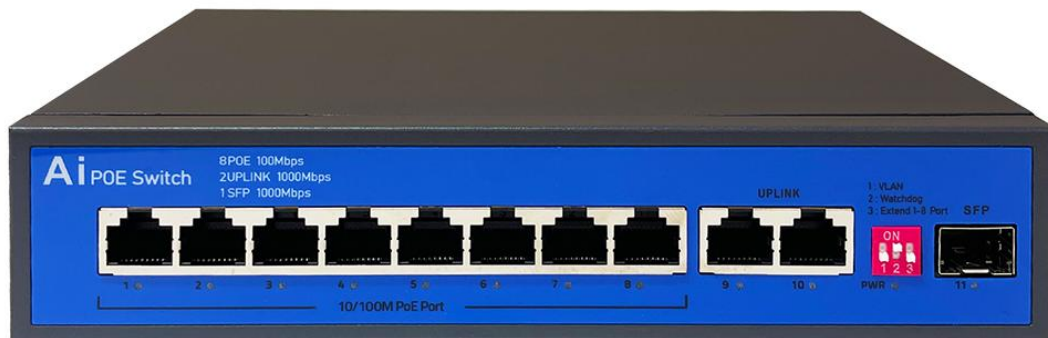


# DATA SHEET

## 8+2+1F Full Gigabit Smart POE Switch



### 【Product Overview】

S821G series unmanaged PoE switches have 10 Gigabit Ethernet ports + 1 Gigabit uplink SFP optical port, of which 1-8 ports support IEEE 802.3af/at standard PoE power supply, and the single-port PoE power reaches 30W. The SG821Q service ports all support 4KV electrostatic lightning protection, and the downlink ports support POE watchdog automatic restart troubleshooting, port VLAN isolation function, and one-key 10M/250m long-distance transmission mode and other practical function switches, making the 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, 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;
- Photoelectric hybrid uplink port, flexibly adapted to network cable and optical fiber connection, suitable for various networking expansion and expansion, easier networking;
- Supports 10M/250m long-distance transmission, automatically optimizes the network, and easily solves long-distance point communication and power supply problems;
- 1~8 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		S821G
<b>Port Characteristics</b>		
Fixed Port	Downlink port	8* 10/100Base-TX RJ45 network port
	Uplink port	2* 10/100/1000Base-T RJ45 network port 1* 1000M SFP optical port slot
	PoE port	1-8 support af/at standard PoE power supply, transmission distance 100-250 meters
Port Characteristics		1-10 port 10/100/1000M adaptive, full/half duplex MDI/MDI-X adaptive
Twisted Transmission	Pair	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
Optical Characteristics	Port	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 realize 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 turn on the power port to achieve 10m/250m long distance function, default "OFF"
<b>Switching Chip Parameter</b>		
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	22Gbps (non-obstructive)	

Packet Forwarding Ratio@64byte	16.368Mpps
MAC Address Table	8K
Packet Forwarding Cache	4Mbits
Giant Frame	9.2Kbytes
Indicator Light	Power indicator: PWR (green); Network indicator: L/A (green); Optical port indicator : SFP (green)
MTBF	100,000 hours
<b>POE and Power Characteristics</b>	
POE Port	1-8 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	120W (AC100-240V)
Power Consumption	Standby power consumption: <6W; Full load power consumption: <120W
Matching power supply	Built-in switching power supply AC: 100~240V 50-60Hz 2.0A
<b>Physical Specification Parameters</b>	
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)	202mm*140mm*44mm
Net/Gross weight	0.72kg / 0.92kg
Installation Method	Desktop, wall mounted
<b>Product Certification And Warranty</b>	
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	8+2+1F Full Gigabit Smart POE Switch	1	set
	AC Power Cord	1	piece
	Quick start guide	1	piece
	Warranty Card and Certificate of Conformity	1	piece

## 【Ordering Information】

Equipment Name	Equipment Information	Standard Power Supply
SG821Q	Unmanaged 8 10/100/1000M network ports + 2 10/100/1000M network ports + 1 Gigabit SFP optical port uplink PoE switch, 1-8 ports support IEEE 802.3af/at international standards, support PoE watchdog auto-restart, support port VLAN isolation, support for 10M/250 meters long-distance transmission, built-in power supply, desktop, wall-mounted Installation.	Input: AC100-240V Output: DC52V

## 【Option Information】

Name	Model number	Descriptions	Unit
1.25 Optical module	SFP-1.25G-SM1310/15 50-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-SM1310/15 50-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-SM131 0	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	piece

		hot-swap.	
	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
<b>Electrical Port Module</b>	SFP-1000Base-T-100M	1.25G SFP optical module to 10/100/1000M RJ45 network port, (optical to electrical)	piece