

Product Design



Overview

SG1816P is a full Gigabit unmanaged PoE switch independently developed by TOTOLINK. Ports 1 to 16 support PoE+ function and comply with IEEE 802.3af/at standards. The PoE power of a single port can reach 30W, and the maximum PoE output power of the whole machine is 250W. It supports flow control, port aggregation, and VLAN isolation working modes. As a PoE power supply device, it can automatically detect and identify standard powered devices and supply power to them through network cables. Plug and play, simple and convenient to use, suitable for hotels, campuses, factory dormitories and small and medium-sized enterprises to build economical and efficient PoE networks.

16*10/100/1000Mbps PoE ports + 2*10/100/1000Mbps Uplink ports

SG1816P 1-16 gigabit ports support IEEE802.3af/at standard, only one network cable is needed to transmit power and data at the same time, and dual 1000M Uplink ports are provided to meet the cascading and access needs of more devices, while reducing network costs and providing you with a fast and reliable network environment.

Plug and Play

All ports support Gigabit non-blocking line-speed forwarding, making transmission smoother. Supports IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control.

Environmentally Friendly Switch

SG1816P can extensively expand your network with less power and provide a longer product life. If no device connected, it will automatically power off ports to reduce power consumption.

250W high power POE power supply

1~16 port Supports IEEE 802.3af/at PoE power supply standards to meet the PoE power supply needs of security monitoring, teleconferencing systems, wireless coverage and other scenarios.

The maximum PoE output power of a single port is 30W, and the maximum PoE output power of the whole device can reach 250W;

Four working modes

SG1816P supports 4-speed working modes, M1 and M2 for flow control on/off, M3 for 23/24 port aggregation based on MAC source, and M4 for port isolation. It is a multi-functional switch that is easy to manage.

Independent Uplink port

Two independent Gigabit Uplink ports ensure that the ports can easily handle sudden high traffic and ensure that the uplink channel is unobstructed;

Standard 19-inch rackmount steel case.

Built-in power supply, 19-inch standard cabinet structure design, suitable for desktop installation and standard cabinet use.

Intelligent power management

If the power of the powered device exceeds the limit, the system activates the PoE port priority mechanism and cuts off the power supply of the port with low priority;

Features

- 16*10/100/1000Base-T RJ45 ports support PoE+ power supply plus 2*10/100/1000Base-T RJ45 Uplink ports
- All ports support Gigabit non-blocking line-speed forwarding, and transmission is smoother.
- Supports IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode.
- Auto-MDI/MDIX eliminates the need for crossover cables.
- Store and forward Switching scheme.
- Standard 19-inch rackmount steel case.
- Support VLAN isolation to ensure your network security.
- PoE port priority mechanism.
- Plug and play, no configuration required, simple and convenient.
- The maximum PoE output power of the whole machine is 250W, and the maximum PoE output power of a single port is 30W.
- Automatically identify PoE devices for power supply without damaging non-PoE devices.
- Supported Overvoltage protection.
- Supported short circuit protection.
- PoE ports support priority mechanism. When the remaining power is insufficient, the power supply of high-priority ports is prioritized to avoid overloading of equipment.

Specifications

General	
Standards	- IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3af/at
Interface	- 16*10/100/1000Mbps auto-negotiation RJ-45 Ports (Auto MDI/MDIX) POE Ports - 2*10/100/1000Mbps auto-negotiation RJ-45 Ports (Auto MDI/MDIX) Uplink Ports
Power Supply	- 100~240V AC, 60/50Hz
LED Indicators	- Link/Ack and POE indicator lights*16 (built-in RJ45, Link/Ack is green, POE is orange) - Link/Ack indicator lights*2 (built-in RJ45, Link/Ack is green, 17.18 ports) - Toggle switch indicator light * 4 (M1, M2, M3, M4 indicator light) - Power(orange)*1
Dimensions(L x W x H)	- 440 x 180 x 44mm
MAC Address Learning	- Auto-learning, auto-aging
MAC Address Table	- 8K
Working modes	- M1: Flow Control Off - M2: Flow Control On - M3: 17/18 Port Aggregation Based on MAC Source - M4: Port Isolation
Network Media	- 10BASE-TX: UTP Cat 3, 4, 5 cable - 100BASE-TX: UTP Cat 5, 5e or above cable - 1000BASE-TX: UTP Cat 5, 5e or above cable
Backup Bandwidth	- 32Gbps
PoE Through Pin	- 1 2 4 5 +, 3 6 7 8 -
Transfer Method	- Store-and-Forward
Others	
Package Contents	- SG1816P Rackmount Switch *1 - Quick Installation Guide *1 - Power Cable *1 - Rackmount Brackets *2 - Screws *6
Environment	- Operating Temperature: 0°C~40 °C (32 °F ~104°F) - Storage Temperature: -40°C~70 °C (-40 °F ~158°F)