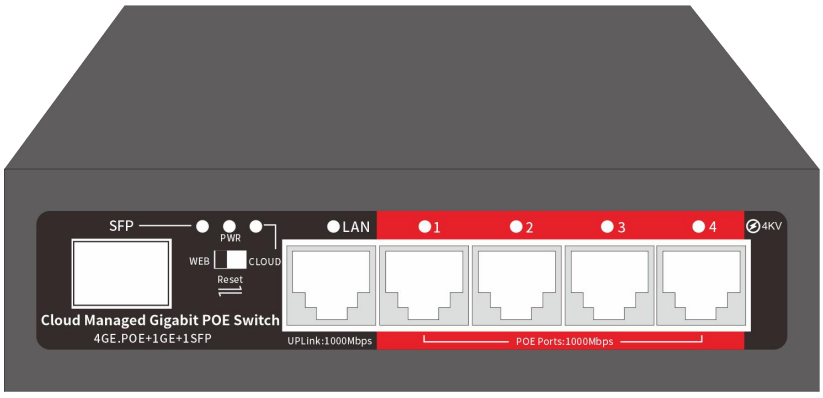
The Specification Of Cloud-managed PoE Switch Series(**GEP411GSC-W65**)

1. Product Introduction:

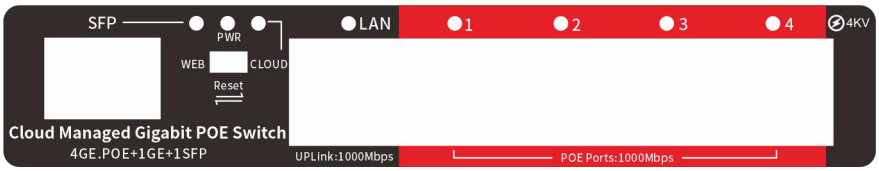
This product is a fully gigabit Ethernet POE power supply switch independently developed by our company, providing 5 10/100/1000M adaptive RJ45 ports and an independent SFP expansion slot. At the same time, ports 1 to 4 have POE power supply function, which can be used as Ethernet power supply equipment. All power supply ports can automatically detect and identify power receiving devices that meet the IEEE 802.3af/at standard; this model supports remote management, which can be remotely managed through the WeChat Mini Program "Cloud Network Management" switch (the international version can be remotely managed through the mobile APP), and supports login management through web pages.



2. Features:

- Complies with IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet protocol standards;
- Support 802.3af/at standard protocol, intelligently detect power supply, and do not burn out non-powered equipment;
- Support 802.1Q VLAN, MTU-VLAN, Port VLAN, suitable for a variety of networking business needs;
- Support spanning tree protocols: STP (IEEE802.1d), RSTP (IEEE802.1w);
- Support AI watchdog and automatic ultra-long distance function.
- Second gear switch: WEB+CLOUD (domestic factory default is CLOUD, overseas default is WEB).
- Overcurrent overload short circuit protection, eliminate hidden dangers, power supply safety;
- Support common mode differential mode lightning protection;
- Cloud network management: visual remote management, on-site problems, remote resolution;
- Provide 4 10/100/1000M adaptive POE power supply ports, 1 upstream 10/100/1000M adaptive RJ45 port, and 1 1.25G SFP expansion slot;
- All ports support Auto Flip (Auto MDI/MDI-X) function;
- Support IEEE802.3X full duplex flow control and Backpressure half duplex flow control;
- Support for autonomous learning and aging of MAC addresses;
- Full metal shell, the whole machine is fully loaded with 52W.;
- Plug and Play;

3. Functional Switch And Definition Of Indicator:



Indicator Light:

Indicator Light	Definition	Functional Description
Functional Indicator	PWR	Switch power status indicator, light up to indicate that the device is started
	CLOUD	ON: Remote cloud management function is turned on
Port Indicator	Link/ACT	ON: the port link is normal; Flashing: data transmission is in progress

Gear Description

Gear	Definition	Functional Description
CLOUD	Remote Management Mode	Enable local WEB management and APP remote management functions
WEB	Local Management Mode	WEB local management mode
RESET		The switch is at WEB, within 1 second, unplug to CLOUD and then unplug back to WEB, switch restart and restore factory settings

4. Basic Specification

Item	Parameter
Port Composition	4 1000Mbps POE. RJ45 ports + 1 1000Mbps cascaded RJ45 port and an independent 1.25G SFP interface
Backplane Bandwidth	12G
MAC Addresses	2K
Power Specifications	AC input 100-240V, standard 52W power supply
Network Media And Transmission Distance	1000Base-T: 4 pairs of Super Class 5 (Cat5e) or above UTP/STP (≤100m) 100Base-TX: 2 pairs of 5 (Cat5) or above UTP/STP (≤100m) 10Base-TX: 2 pairs of 5 (Cat5e) or above UTP/STP (≤250m)

5. Software Specification

Item	Parameter
Basic Function	Comply with IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet protocol standards Compatible with IEEE 802.3af/at compliant power receiving devices (PDs) Compatible with certified non-standard power receiving equipment (PD) Store and forward MAC automatic learning and aging IEEE802.3X Full Duplex Flow Control and Backpressure Half Duplex Flow Control
Ethernet Protocols And Standards	IIEEE 802.3 Ethernet Media Access Control Protocol IEEE 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE802.3z 1000Base-X SFP interface IEEE 802.3af Power Supply for Ethernet Devices through Ethernet Data Pairs or Devices IEEE 802.3at High Power Supply for Ethernet Devices through Ethernet Data Pair or Device

Item	Parameter
	IEEE 802.3x Flow Control
Data Transfer Rate	Ethernet 10Mbps half-duplex, 20Mbps full duplex Fast Ethernet 100Mbps half-duplex, 200Mbps full duplex Gigabit Ethernet 2000Mbs Full Duplex

Item	Content supported by the remote control (via Mini Program or APP)
Cloud Network Management: Information View	Switch SN information, device model, firmware version, real-time IP, real-time port power, port LINK status, link duplex, up and down rate;
Cloud Network Management: Device Operation	Port isolation setting, port restart, port POE switch, port ultra-remote switch, switch machine restart, machine setting reset, firmware upgrade;
Safety Features	Order-based protection Support MAC/PORT binding Support DHCP snooping and DHCP attack protection Support end-port security and end-port isolation Support CPU protection function
Access Control (ACL)	Supports port mirroring, port redirection, stream speed limiting, QoS relabeling
Quality of Service (QoS)	Support port priority, 802.1P priority, DSCP prioritySupport SP, WRR, SP + WRR, Equ priority scheduling algorithm
Generating Tree Protocol	Support STP(IEEE 802.1d)，RSTP(IEEE 802.1w) protocol
Management And Maintenance	Support WEB management Support PC client side management Support Mini Program /APP remote management

6. POE Performance

Item	Parameter
IEEE802.3af	Support
IEEE802.3at	Support
Port Output Maximum Power	30W

Overcurrent Protection	Support
Overvoltage Protection	Support
Short Circuit Protection	Support
Sequential boot (to avoid excessive instantaneous current)	Support
High Power PD Soft Start	Support

7. Environmental Requirements

Environment	Parameter
Temperature	Working Temperature：0°C～40°C Storage Temperature：-40°C～70°C
Humidity	Working Humidity：10%～90% RH non-condensing Storage Humidity：5%～90% RH non-condensing
Altitude	Working：The maximum is 6500 feet（2000 meters） Storage：The maximum is 6500 feet (2000 meters)

8. Weight

Category	Weight
Bare board (excluding packaging)	
FCL weight (20PCS)	

9. Lighting Surge Protection (10/700us)

Performance	Parameter
Differential Mode	4KV
Common Mode	4KV

10. Size Specification

Category	Parameter
Bare Machine	125mm*115mm*34mm (With hanging earrings)
Whole Machine (Neutral Packing)	205mm*165mm*65mm
FCL(20PCS/carton)	350mm*350mm*425mm

11. Package、Transportation、Storage

Packing Content	Parameter
Fill protection	Integrated card protection
Packing Box	High-quality kraft carton, size 350mm*350mm*425mm
Packaging Quantity	20PCS(carton)
Other	The packaging box should be labeled with the product model code and quantity.

Transport Requirements: Domestic designated express logistics can be transported in whole boxes, suitable for transportation by car, ship, and plane. During transportation, it should be covered, sun protected, and loaded and unloaded in a civilized manner.

Store Requirements:

Index	Requirements
Humidity Environment	5%～90% RH non-condensing

Temperature Environment	-40°C ～ 70°C， Considering humidity, the most reasonable state is recommended for room temperature conditions
Stack Limit	In the complete packaging state, the maximum limit of 4 layers is
Precautions	The storage warehouse should be clean, ventilated, free of corrosive gases, flammable, explosive, and other corrosive chemicals. Keep away from heat sources and sources of strong mechanical vibration.
Storage Cycle	According to the above requirements, it can be stored reasonably for one year. After 2 years, it is recommended to re-inspect and then use it.