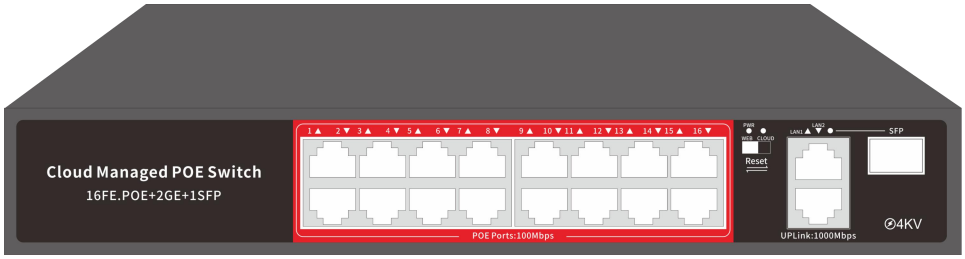
Cloud Management Series POE Switch Specification (FEP1621GSC-W240)

1. Product Introduction:

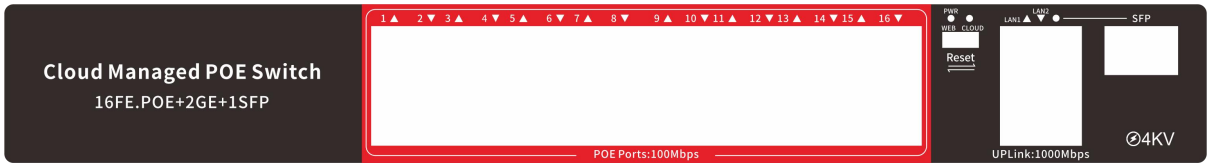
The product is a fully gigabit Ethernet POE-powered switch independently developed by our company, providing 16 100Mbps adaptive POE power supply RJ45 ports and 2 upstream 1000Mbps adaptive RJ45 interface and 1 1000Mbps SFP interface. It can be utilized as an Ethernet power supply device. All power supply ports can automatically detect and identify powered devices that meet the IEEE 802.3af/at standard. It supports remote mobile phone access for monitoring the operating status of the switch and the management of various network functions. The switch can be remotely managed through the APP "Amitres IOT" ,and the switch ports can be remotely viewed and managed. It also supports management through web page login.



2. Functional Features:

- Follow the IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet protocol standards;
- Support the 802.3af/at standard protocol, with intelligent detection for power supply, and will not burn out non-powered devices;
- Overcurrent, overload, and short circuit protection, to eliminate hidden dangers and ensure power supply safety;
- Support 802.1Q VLAN, Port VLAN, suitable for a variety of networking business needs;
- Second gear mode: WEB + CLOUD (domestic factory default CLOUD, overseas default WEB);
- Support APP "Amitres IOT" remote management switch, support local web management;
- Support DHCP snooping, port mirroring, port management and other functions;
- Support broadcast and multicast storm suppression;
- Cloud network management: Visual remote management, on-site problems, remote resolution;
- Provide 16 100Mbps POE RJ45 ports and 2 1000Mbps RJ45 ports and 1 1000Mbps SFP port;
- All ports support the function of automatic flipping (Auto MDI/MDI-X);
- Support IEEE802.3X full-duplex flow control and Backpressure half-duplex flow control;
- Support the independent learning and aging of MAC addresses;
- All-metal shell, and the whole machine is fully loaded with 240W;
- 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 remote APP 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	Data
Port Composition	16 100Mbps POE RJ45 ports and 2 1000Mbps RJ45 ports and 1 1000Mbps SFP port
Backplane bandwidth	9.2G
MAC address	2K
Packet forwarding rate@64byte (throughput)	6.845Mpps
power supply	AC input 100-240V, standard configuration 240W power supply
Network medium and transmission distance	1000Base-T: 4 pairs of Super Category 5 (Cat5e) or above UTP/STP (≤100m); 100Base-TX: 2 pairs of Category 5 (Cat5) or above UTP/STP (≤100m); 10Base-TX: 2 pairs of Super Category 5 (Cat5e) or above UTP/STP (≤250m).

5. Software Specifications

Item	Descriptions
Basic functions	Follow the IEEE 802.3 Ethernet and IEEE802.3u Fast Ethernet protocol standards Compatible with powered devices (PD) that conform to the IEEE 802.3af/at standard. Compatible with certified non-standard powered devices (PD). Store-and-forward The independent learning and aging of MAC addresses. 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 IEEE 802.3z 1000BASE-X SFP Interface IEEE 802.3af To achieve the power supply of Ethernet devices through Ethernet data lines or devices IEEE 802.3at To achieve high-power power supply of Ethernet devices through Ethernet data lines or devices IEEE 802.3x Traffic control
Data Transmission Rate	Ethernet 10Mbps half-duplex, 20Mbps full-duplex. Fast Ethernet 100Mbps half-duplex, 200Mbps full-duplex. Gigabit Ethernet 2000Mbs full duplex

Item	The supported contents of the remote control end (through the APP "Amitres IOT")
Cloud 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, VLAN status;
Cloud Management: Device Operation	Port isolation setting, port restart, port POE switch, port speed limit, port ultra-long switch, switch whole machine restart, whole machine setting reset, port duplex setting, firmware upgrade, VLAN setting;
Safety Features	Order-based protection 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
Management And Maintenance	Support WEB management Support PC client side management Support remote management via APP "Amitres IOT"

6. POE Performance

Item	Data
IEEE802.3af	Supported
IEEE802.3at	Supported
The Maximum Power Output Of The Port	30W
Overcurrent Protection	Supported
Overvoltage Protection	Supported
Short Circuit Protection	Supported
Sequential startup (to avoid excessive instantaneous current).	Supported
High power PD soft start.	Supported

7. Environmental Requirements

Environment	Data
Temperature	Operating temperature: 0℃ ~ 40℃ Storage temperature: -40℃ ~ 70℃
Humidity	Operating humidity: 10% ~ 90% RH(Relative Humidity) non-condensing Storage humidity: 5% ~ 90% RH(Relative Humidity) non-condensing
Altitude	Operating altitude: Maximum 6500 feet (2000 meters) Storage altitude: Maximum 6500 feet (2000 meters)

8. Product Weight

Category	Weight
Naked Machine (Without Packaging)	Approximately 1.3 kg
The Entire Box Weight (10PCS)	Approximately 17.5kg

9. Lightning Surge Protection（10/700us）

Performance	Data
Differential Mode	4KV
Common Mode	4KV

10. Dimensions

Category	Data
Naked Machine	270mm*180mm*45mm
Whole Machine	310mm*244mm*77mm
Whole Box(10PCS/carton)	515mm*415mm*335mm

11. Packing、Transportation、Storage

Packing Contents	Data
Filled Protection	Left and right pearl cotton sets, fully wrapped for protection.
Packing Box	Premium cow card cardboard box, sized 515mm*415mm*335mm.
Packing Number	10PCS(carton)
2D Code	The packaging box and the equipment body should have a unique equipment SN(Sequence Number) number.
Others	The packing box should have labels indicating the product model codes and quantity.

Transport Requirement： Domestic designated express logistics can transport the whole box, and it is suitable for transportation by car, ship and plane.During transportation,it should be covered, sun-proof, and loaded and unloaded in a civilized manner.

Store Requirement：

Index	Requirements
Humidity Environment	5% to 90% RH（relative humidity） without condensation

Temperature Environment	-40 ℃ to 70 ℃, considering in combination with the humidity, the most reasonable state is recommended to be the room temperature condition
Stacking Limit	In the complete packaging state, the maximum upper limit is 4 layers.
Points For Attention	Storage warehouses should be clean, ventilated, free of corrosive gases, free of flammable, explosive and other corrosive chemicals, and away from heat sources, strong mechanical vibration sources.
Storage Cycle	According to the above requirements, reasonable storage can last for one year, and it is recommended to re-examine and use again after two years.