level one ®

GEP-0823

User Manual

Package Content

Please check the following items in the package before installing the switch.

1. **GEP-0823**   **x** 1
2. **AC/DC adapter**   **x** 1
3. **AC power line**   **x** 1
4. **User manual**   **x** 1

Brief introduction

Many thanks for purchasing this Gigabit Ethernet POE Switch! This product supports IEEE802.3ab 1000Base-T standard, available for both full duplex and half duplex mode. It provides 8 UTP ports with PoE feature, suitable for most 10/100/1000M networks.

Installation

1.   Interface

    RJ-45 interface

All RJ-45 copper interfaces support Auto-Negotiation for optimal speed detection through RJ-45 CAT5 UTP cables with a maximum length of 100 meters (or 328 feet). They also support standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

2. Connection

All ports support 802.3af compliant Power Devices (PD) and other network devices (e.g. work station, hub or switch). Connect one end of the standard UTP CAT5 network cable to the 10/100/1000Mbps RJ-45 ports on the front panel of the switch. Connect the other of the cable to the typical network devices.

3. Power on

Connect one end of the power adapter to the switch.Connect the power plug of the adapter to a standard wall outlet. When the switch is powered on, the PWR LED should be remain static green. The LEDs of each port indicate the connection status of corresponding port. (See Table.1 for detailed description)
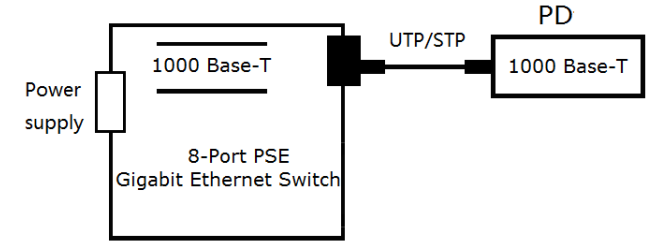

Fig.1 Basic Switch Connection

Panel

1.   Front Panel

The front panel of PoE switch consists of 8 Auto-Sensing 10/100/1000Mbps Ethernet RJ-45 ports. The power LED and LED indicators of all ports are also located on the front panel.

Fig.2 Switch Front Panel

Rear Panel

The rear panel of the switch indicates an DC inlet power socket, which accepts 52V DC input power.
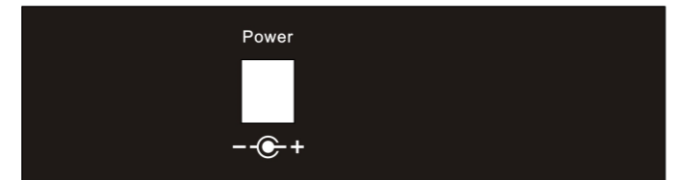

Fig.3 Switch Rear Panel

Explanation for LED indicators

The LED indicators serve as device status monitoring and error display. The following table explains each LED indicator.

Table.1 Descriptions of LEDs

LED	Status	Description
PWR	Green	Device active
POE P1~P8	Yellow	PoE function active and Connected PD is supplied with PoE
	OFF	PoE function deactivated or No PD identified
L/A P1~P8	Green	Link to port
	Blink	Data transfer to port
SPD P1~P8	Green	Transfer rate is 1000Mbps
	OFF	Transfer rate is 10/100Mbps

Technical parameters:

1. Standard Protocol:

    IEEE 802.3 10 Base-T

    IEEE 802.3u 100Base-TX

    IEEE 802.3ab 1000Base-T

    IEEE 802.3x flow control

    IEEE 802.3af PoE

2. Connectors:

    8× UTP RJ-45 connector with POE function

3. Operation mode:

    10/100/1000Mbps auto-negotiation mode

4. Power supply: 52VDC@2.5A with 802.3af

5. PSE Pinout: PIN1/2: Pos(+), PIN3/6:Neg(-)

6. Operation temperature: -20℃~70 ℃

7. Storage temperature: -40℃~75 ℃

8. Operation humidity: 5%-90% non-condense

9. Storage humidity: 5%-90% non-condense

10. Twisted Pair cable: Cat5 UTP cable

11. Dimensions: 30×170.5×80.5mm (H x W x D)

Warning:

1. This product is suitable for indoor application.

2. The cable distance between the switch and PC should not exceed 100 meters for UTP cable.

3. Cat.3/4/5 cable may be used in 10Mbps operation. However, Cat.5 UTP or better data grade cable must be employed for 100/1000Mbps operation.

4. The appliance inlet is used as the disconnect device and shall remain readily operable at all time.

Trouble shooting:

1. Bad performance

    Please check the transfer rate (10Mbps, 100Mbps or 100Mbps) and the duplex status (full duplex or half duplex) of both sides. Make sure both sides are set to identical status.

2. Link failure :

    Check the L/A LED on the switch try another port on the switch make sure the cable is well installed make sure the cable is the right type power off the device for a while and power it on again.