

**16 PORTS POE SWITCH**

**GE-LP1603G-UT-20**



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**16 Ports PoE Switch**



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## Introduction

The 16 ports PoE switch is an unmanaged PoE Ethernet switch along with 16 \* 100Base-TX downlink PoE ports and 2 \* 1000Base-TX uplink Ethernet ports featuring 30-watt 802.3at PoE+ as well as 1 additional Gigabit Combo port. The total PoE power budget is up to 180 watts. It supports real-time PoE output LED display. The device can be widely used in video security monitoring systems, network projects, etc.

### Specification

Item	Description
<b>Product Type</b>	Product Type: 16 Ports
<b>Port description</b>	Downlink Ethernet: 16x10/100Base-TX PoE+
	Uplink Ethernet Ports: 2x10/100/1000Base-T+1x1000Base-X(combo)
	Power Input: 1xAC Female Terminal
	Grounding Terminal: 1xGrounding Terminal
<b>PoE&amp;Power</b>	Power Input: Mains on load, 100 240VAC 50/ 60Hz
	PoE Power Supply PoE Max. Power: End-span(1/2 3/3), IEEE802.3af/at 180W
	Single Port Power Output: Single Port PoE Power Outputs≤30W, Voltage 54VDC
<b>One-key CCTV</b>	CCTV Mode: 1. Downlink ports only communicate with uplink ports; 2. Restrain network storm under 2Mbps; 3. Extend transmission distance to 250m; 4. Rate: 10Mbps(Downlink Ports)
	Network Standard: IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z
	Transmission Distance: 100m(Max.)
	Exchange Capacity: 7.2Gbps
<b>Network Parameters</b>	Packet Transfer Rate: 5.36Mpps
	MAC Address: 4K
	Packet Data Cache: 2.75Mb
	Power Input: 1x Red LED
	Downlink Ethernet Ports: Link: 16x Green LED PoE: 16x Yellow LED
<b>Indicators Status</b>	Uplink Ethernet Port Link: 2x Green LED
	PoE Power Output Percent: 5x LED (including 3x Green, 1x Yellow, 1x Red), separately indicate 30%, 60%, 90%, 95%, 100%
<b>Network Parameters</b>	ESD: 6KV/8KV, Per: IEC61000-4-2
	Surge Protection: 6KV, Per: IEC61000-4-5
<b>Operation Environment</b>	Operation Temperature: -10c ~ 45c
	Storage Temperature: -40c ~ 85c
	Humidity( Non-condensing): 0~95%
<b>Mechanics</b>	Dimensions(LxWxH): 442mm*285mm*44.5mm
	Material: Iron
	Color: Black

### Characteristics

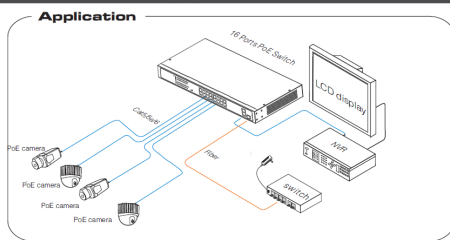
- ❖ Provide 16x 100Mbps downlink PoE Ethernet ports, 2x gigabit uplink Ethernet ports and 1x gigabit Fiber port;
- ❖ Downlink Ethernet ports support PoE+, each port supports max.
- ❖ Support power consumption indication (LED indicates power output status);
- ❖ Accord with IEEE802.3 IEEE802.3u IEEE802.3ab IEEE802.3af/at standard;
- ❖ 4K MAC address, 2.75Mb cache;
- ❖ Quick installation, easy operation, convenient for wall-mounted, desktop and rack installations.

### Installation steps

- ❖ Please check the following items before installation, if it is missing, please contact the dealer.
 

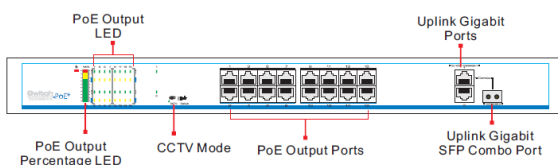
❖ 16 Ports PoE Switch	1pcs
❖ AC Power Cable	1pcs
❖ Accessories	1pcs
❖ User Manual	1pcs
- Please follow installation steps as below:
- ❖ Turn off the power of all the related devices before the installation; otherwise the device would be damaged;
- ❖ Use Ethernet cable connect PoE IP camera and 1~16 downlink ports of product respectively;
- ❖ Use an Ethernet cable to connect equipment uplink port with NVR or computer;
- ❖ Connect power adapter
- ❖ Check if the installation is correct, equipment is in good condition, the connection is stable, then power on for system.

### Application

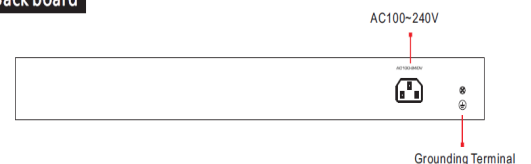


### Board Diagram

#### Front board



#### Back board



## Trouble shooting

If any trouble in installation, please follow these steps:

- ❖ Please make sure you have followed the instruction to install the device;
- ❖ Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards;
- ❖ The power supply of each PoE port is no more than 30W; please do not connect the PoE device which exceeds the maximum PoE power supply;
- ❖ Please replace a failure device with a proper one to check if the device is broken.

## RJ 45 Making Method

Instruments to be used: wire crimper, network tester. Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

- ❖ Shuck off about 2cm long the insulating layer, and bare the 4 pairs UTP cable;
- ❖ Depart the 4 pairs UTP cable and straighten them;
- ❖ Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
- ❖ Cut out 1.5 cm cable wrap and leave the bare wire;
- ❖ Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
- ❖ Then use wire crimper to crimp it;
- ❖ Follow the 5 steps above to make the another end, following the same sequence of the first plug;
- ❖ Using network tester to test the cable whether is working.
- ❖ Connect power adapter
- ❖ Check if the installation is correct, equipment is in good condition, the connection is stable, then power on for system.

Pin	Color
1	white/green
2	green
3	white/orange
4	blue
5	white/blue
6	orange
7	white/brown
8	brown



EIA/TIA 568A

Pin	Color
1	white/orange
2	orange
3	white/green
4	blue
5	white/blue
6	green
7	white/brown
8	brown



EIA/TIA 568B