GV-APOE0810 10-Port 10/100/1000M Unmanaged PoE Switch with 8-Port PoE

1. Packing List

1. GV-APOE0810
2. AC Power Cord
3. Rubber Feet x 4
4. Rack Mount Kit
5. Screws x 8

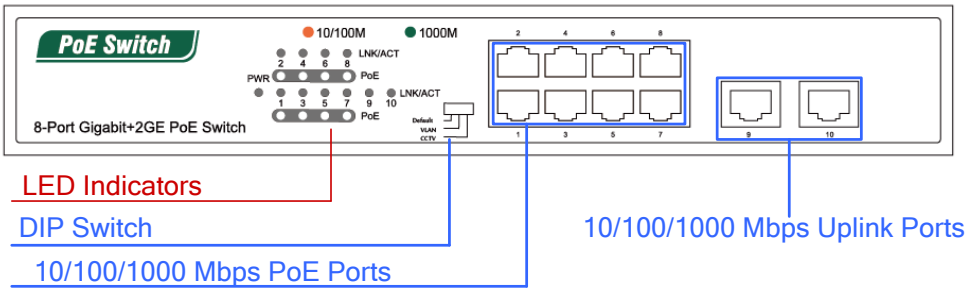
Note: If any of these items is found missing or damaged, please contact your local supplier for replacement.

2. Introduction

GV-APOE0810 is a 10-port 10/100/1000 Mbps unmanaged PoE Switch with 8 PSE/PoE ports and 2 uplink ports. The switch supports IEEE 802.3at Power over Ethernet standard, with up to 32 W per port and a maximum power consumption of 125 W. In addition to not requiring special network cables for connecting your powered devices (PD), such as IP cameras, its CCTV mode also allows power supply over cables of up to 250 m (820 ft) in length, at 10 Mbps. It also gives you the option of VLAN mode to isolate each of the PoE ports for an enhanced forwarding rate of time.

3. Front Panel

The front panel consists of 10 10/100/1000 Mbps ports, 8 PoE and 2 uplink, LED indicators and the DIP switch.



3.1 LED Indicators

LED	Color/Status	Description
PWR	Off	No power supply
	Orange	System powered on
LINK/ACT	Off	No devices connected to the corresponding port
	Orange	Network through the corresponding port has been successfully established at 10/100 Mbps.
	Green	Network through the corresponding port has been successfully established at 1000 Mbps.
	Blinking Orange / Green	Data currently being sent through the corresponding port at 10/100 (orange) or 1000 (green) Mbps
PoE	Off	No PoE powered devices (PD) connected
	Orange	At least one device successfully powered through PoE
	Blinking Orange	Abnormal power supply

3.2 DIP Switch

The DIP switch can switch the system between Default, VLAN and CCTV modes, as explained below:

[Default Mode] There can be communication between all 10 ports, and power can be supplied through the 8 PoE ports over cables of up to 100 m (328 ft) with a network bandwidth of 1000 Mbps per port.

[VLAN Mode] The 8 PoE ports function independently, cannot communicate with one another, and can only communicate with the 2 uplink ports.

[CCTV Mode] Allows power supply over cables of up to 250 m in length, but at the expense of reducing the network bandwidth of the 8 PoE ports to 10 Mbps per port.

Note: After switching between Default / VLAN / CCTV mode, the system must be restarted for the change of mode to take effect.

4. Rear Panel

The AC power socket for powering the system is located at the rear panel and accepts power input from 100 to 240 V at 50/60 Hz.

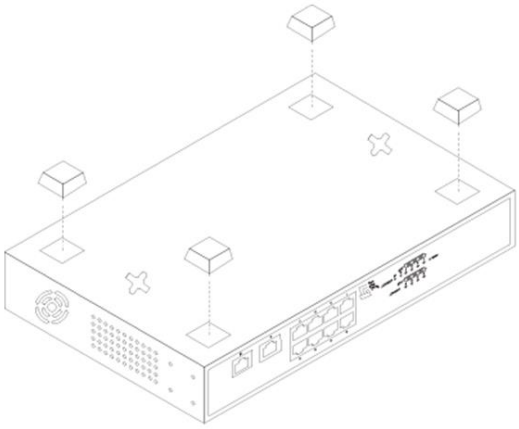
5. Installation

Prior to installing the PoE switch, please note the following:

- Only clean the switch when it is unplugged and with a dry cloth without involving any liquids.
- Do not place the switch near water or any damp area and prevent moisture from entering the switch chassis.
- Do not place the switch on an unstable surface where it may be severely damaged due to a fall.
- Ensure there is proper ventilation at the installation site and keep the ventilation of the switch free of obstruction.
- Make sure the operating voltage is consistent with as labeled on the switch.
- Do not open the chassis during operation or when there are electrical hazards in avoiding electric shocks.

5.1 Leveled Installation

To install the switch on a leveled surface, attach the four supplied rubber feet at the bottom of the switch as illustrated and place it on a leveled surface.

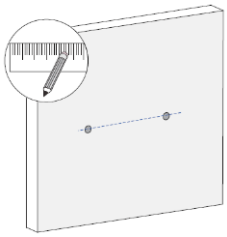


Note: Make sure to leave at least 10 cm of space around the switch for adequate ventilation.

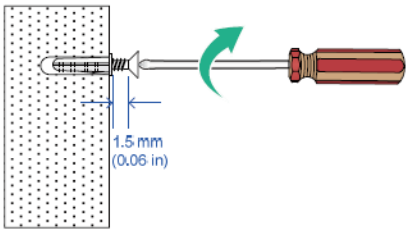
5.2 Wall Mount Installation

For wall mount, make sure to prepare 2 screws of 4 mm in length and 5.5 ~ 7 mm in diameter and prepare 2 screw anchors of matching size.

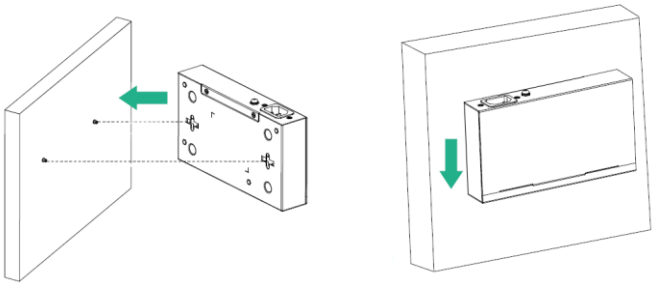
1. Drill two evenly-leveled holes on the desired wall that are 150 mm apart.



2. Hammer the two self-prepared screw anchors into the holes on the wall.
3. Insert the two-self prepared screws into the screw anchors and tighten to the point where there are about 1.5 mm left hanging out, as illustrated.



4. Hang the GV-APOE0810 onto the screws with all 10 of its port pointing downward, as illustrated.



Note: Make sure to leave at least 10 cm of space around the switch for adequate ventilation.

5.3 Powering On the Switch

To power on the switch, connect it to a power source using the supplied AC power cord (preferably one that is grounded). The device will respond as follow upon turning on:

- The LED indicators will flash momentarily, signaling system initiation.
- The PWR LED will be lit.

6. Connecting up to 8 GV-IP Devices and 1 GV-VMS/DVR/NVR System

Through twisted pair cables, the switch can be connected to up to 8 GV-IP Devices and 1 GV-VMS/NVR/DVR System. You can also extend the connections by connecting to other switches.

7. Specifications

Ethernet			
Layer Supported		L2	
Ports			
Number of Ports		10 x Gigabit RJ-45 ports:	8 x PoE+ ports
			2 x uplink ports
Performance			
MAC Address		8 K	
Buffer Memory		2 M bits	
Transmission Method		Store and Forward	
Transmission Media		10/100BaseT(X) Cat. 5 UTP/STP 1000BaseT Cat. 5e, 6 UTP/STP	
Packet Forwarding Rate		13.4 Mpps	
Backplane Capacity		20 Gbps	
Mechanical Characteristics			
LED Indicators		Per Port: Link/Act PoE Act/Status Power	
Electrical Characteristics			
PoE Power	Input	100 ~ 240 V/AC, 50 ~ 60 Hz	
	Output	IEEE 802.3at Compliant Voltage, Per Port Max. 32 watts (8 Ports at Full 15.4 W / 4 Ports at Full 30 W)	
PoE Power Supply Type		End-Span (1, 2+, 3, 6-)	
Max. Power Consumption		125 W	
PoE Budget		120 W	
General			
Dimensions (H x W x D)		44 x 220 x 150 mm (1.73” x 8.66” x 5.91”)	
Weight		1.24kg (2.73 lb)	
Operating Temperature		0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature		-40°C ~ 70°C (-40°F ~ 158°F)	
Humidity		10% ~ 90% RH (non-condensing)	
Surge Protection		±4 KV	

Standards and Regulatory	
Standards	IEEE-802.3at PoE+ / PSE IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.ab 1000BaseT IEEE 802.3x Flow Control
Regulatory	CE, FCC Class A, RoHS compliant

Note: Specifications are subject to change without prior notice.