

## Trademarks

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## FCC Warning

These devices have been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These standards are designed to provide reasonable protection against harmful interference when these devices are operated in a commercial environment. These devices generate, use, and can radiate radio frequency energy and may cause harmful interference to radio communications unless installed in accordance with this Quick Installation Guide. Operation of these devices in a residential area is likely to cause harmful interference which will make the user responsible for the appropriate remedial action at his / her own expense.

## CE Mark Warning

These are Class A products. In a domestic environment these products may cause radio interference in which case the user will need to consider adequate preventative methods.

## 1. Checklist

The package should contain the following items:

- PoE Switch
- AC Power Cord
- Four Rubber Feet
- Rack-mounting Bracket Kit
- Quick Installation Guide
- SFP dust cap x 2

Please notify your sales representative immediately if any item is missing or damaged.

As for power adapters, please refer to Section 8 for more detailed information.

## 2. Overview

This PoE Switch is compact 19-inch, rack mountable, has 24-port 10/100/1000BASE-T 802.3at PoE+ + 2-port 10/100/1000BASE-T + 2-port Gigabit TP/SFP combo switch in front panel. This PoE Switch provides high performance store and forward switching plus built-in DIP switch that provides “Default”, “VLAN” and “CCTV” mode.

Clear, at-a-glance per-port LED indicators make users easier to monitor network and PoE status. EPS-3028 supports IEEE 802.3af/at PoE technology, up to 30W per port and maximum 100-meter transmission distance and supports a maximum of 250/380W of total PoE budget.

### Major Features:

- 24 x 10/100/1000Base-T ports with 802.3af/at PoE Injector Mode
- 4 x 10/100/1000Base-T ports
- 2 x 1000Base-X SFP slots shared with port-27 to 28
- DIP switch for Default, VLAN and CCTV mode
- 8K MAC address table
- Supports PoE power up to 30 watts for each PoE port
- Total 380 watts PoE budget
- PD alive check
- Supports +/- 6KV surge immunity

## 3. Switch Front Panel

Figure 1 shows the front panel of EPS-3028



Figure 1. EPS-3028 Front Panel

## 4. LED Description

### Power LED

LED	Color	Function
Power	Off	Power is off.
	Green	Indicates the switch has power.

### Port LED 1~24

LED	Color	Function
Link/ACT	Off	No connection
	Red	Light: Indicates the link through that port is successfully established at 10/100Mbps.
		Blink: Indicates the switch is actively sending or receiving data over that port.
	Light: Indicates the link through that port is successfully established at 1000Mbps.	

PoE	Green	Blink: Indicates the switch is actively sending or receiving data over that port.
	Off	No powered device (PD) connected
	Orange	Light: There is a PoE PD connected to be port, which supply power successfully.
Blink: Indicates port abnormal power supply.		

### TP Port LED 25~26

LED	Color	Function
Link/ACT	Off	No connection
	Green	Light: Indicates the link through that port is successfully established.
		Blink: Indicates the switch is actively sending or receiving data over that port.
Speed	Off	Indicates the link through established at 10/100Mbps
	Green	Indicates the link through established at 1000Mbps

### TP & F/O Port LED 27~28

LED	Color	Function
Link/ACT	Off	No connection
	Green	Light: Indicates the link through that port is successfully established.
		Blink: Indicates the switch is actively sending or receiving data over that port.
Speed	Off	Indicates the link through established at 10/100Mbps
	Green	Indicates the link through established at 1000Mbps

## 5. Switch Rear Panel

Figure 2 shows the rear panel of EPS-3028



Figure 2. EPS-3028 Rear Panel

## 6. Network Installation

Please follow the steps described below to complete the network installation.

- 1 Connect one end of a standard network cable to port-25 or 26.
- 2 Connect the other end of a standard network cable to the network devices such as routers or workstations.
- 3 Install SFP transceiver and connect one end of a fiber cable to port-27 or 28.
- 4 Connect the other end of fiber cable to the remote fiber device

- 5 Connect one end of a standard network cable to port-1 to port-24 on the front of the PoE switch
- 6 Connect the other end of standard network cable to the 802.3af/at powered devices.
- 7 Connect one end of the power cable to the rear of the PoE switch.
- 8 Connect the power plug of the power cable to a standard wall outlet. When the PoE switch receives power, the Power LED should remain solid Green.

## 7. DIP Switch

The front panel of EPS-3028 has one DIP switch that supports "Default", "VLAN" and "CCTV" modes. The detailed description are shown in the following.

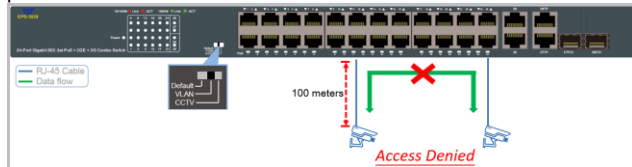
**Note:** After change the mode, in order to the corresponding configuration take effect. The switch needs to restart manually.

### Default DIP Switch Mode

The default DIP switch mode is general switch mode that can normal communication between port 1~28.

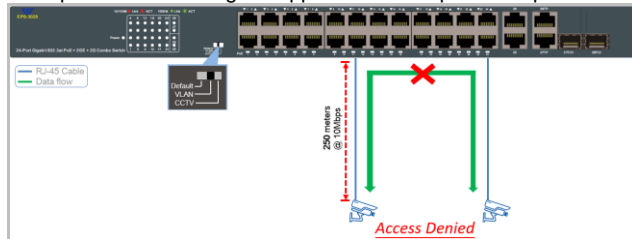
### VLAN DIP Switch Mode

The VLAN DIP switch mode is VLAN isolation mode that 1-24 port can be isolated each other but 1-24 port can connect to 25~28 port.



### CCTV DIP Switch Mode

The CCTV ON DIP switch mode is extension mode that allows 1-24 port to extend your network distance up to 250 meters at 10Mbps while remaining to support 30W PoE power output.



## 8. Technical Specifications

<b>Standards</b>	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T
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### Interface

IEEE 802.3z 1000Base-X  
IEEE 802.3x Flow Control,  
IEEE 802.3af Power over Ethernet,  
IEEE 802.3at Power over Ethernet Plus  
28-Port RJ-45 for 10/100/1000Base-T, auto MDI/MDIX

### PoE Injector Port

2-Port SFP slot for 1000Base-X  
24-Port 802.3af/at PoE Injector (Port-1 to Port-24)

### PoE Power Output

Max. 30W per port

### PoE Budget

380W

### Jumbo Frame

9K

### MAC Address Table

8K

### LED

Power, Link/ACT, PoE, Speed

### Power

AC Input Voltage: 100V-240V 50/60Hz

### Shipping Weight

5kg

### Dimensions

440(W) x 208(D) x 45(H)mm

### Temperature

Operating: 0°C~50°C; Storage: -20°C~60°C

### Humidity

5%~90% RH non-condensing

### EMC Safety

FCC Part 15 Class A, CE

### Media

TP: EIA/TIA-568 CAT 3/4/5/5e  
Fiber: 50/125, 62.5/125µm multi-mode fiber  
9/125, 10/125µm single-mode fiber

\*Please contact us for further reports and updates.

**NOTE:** Specifications may change without prior notice.

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## EPS-3028

**24-Port 10/100/1000Base-T  
802.3at PoE+  
+ 2-Port 10/100/1000Base-T  
+ 2-Port Gigabit TP/SFP  
Combo Switch**

**User's Guide**

**Version 1.0**