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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 16-port 10/100BASE-TX 802.3at PoE+ with 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-2018G 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:

- 16 x 10/100Base-TX ports with 802.3af/at PoE Injector Mode
- 2 x 10/100/1000Base-T ports
- 2 x 1000Base-X SFP slots shared with port-17 to 18
- DIP switch for Default, VLAN and CCTV mode
- 16K MAC address table
- Supports PoE power up to 30 watts for each PoE port
- Total 250/380 watts PoE budget
- PD alive check
- Supports +/- 6KV surge immunity

3. Switch Front Panel

Figure 1 shows the front panel of EPS-2018G



Figure 1. EPS-2018G Front Panel

4. LED Description

Power LED

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

Port LED 1~16

LED	Color	Function
	Off	No connection
Link/ACT	Green	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.
	Off	No powered device (PD) connected
PoE		Light: There is a PoE PD connected to be port, which supply power
	Orange	successfully.

	Blink: Indicates port abnormal power
	supply.

TP & F/O Port LED 17~18

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-2018G

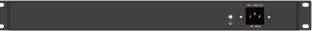


Figure 2. EPS-2018G Rear Panel

6. Network Installation

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

- Connect one end of a standard network cable to port-17 or 18.
- Connect the other end of a standard network cable to the network devices such as routers or workstations.
- Install SFP transceiver and connect one end of a fiber cable to port-17 or 18.
- Connect the other end of fiber cable to the remote fiber device
- Connect one end of a standard network cable to port-1 to port-16 on the front of the PoE switch
- **6** Connect the other end of standard network cable to the 802.3af/at powered devices.
- Connect one end of the power cable to the rear of the PoE switch.
- 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-2018G has one DIP switch that supports "Default", "VLAN" and "CCTV" modes. The detailed description are shown in the following.

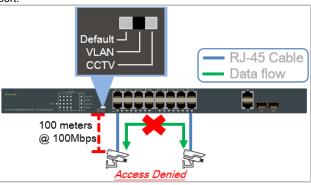
Note: After change the mode, in order to the corresponding configuration take effect. The switch needs to restart manually.

Default DIP Switch Mode

The default DIP switch mode is general switch mode that can normal communication between port 1~18.

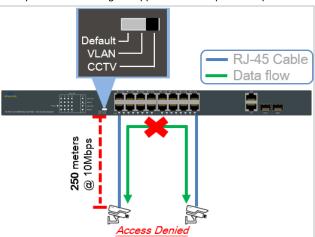
VLAN DIP Switch Mode

The VLAN DIP switch mode is VLAN isolation mode that 1-16 port can be isolated each other but 1-16 port can connect to 17~18



CCTV DIP Switch Mode

The CCTV ON DIP switch mode is extension mode that allows 1-16 port to extend your network distance up to 250 meters at 10Mbps while remaining to support 30W PoE power output.



8. Technical Specifications

Standards

IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X IEEE 802.3x Flow Control.

IEEE 802.3af Power over Ethernet, IEEE 802.3at Power over Ethernet Plus 16-Port RJ-45 for 10/100Base-TX, auto

MDI/MDIX

Interface

PoE Injector Port

2-Port RJ-45 for 10/100/1000Base-T, auto

MDI/MDIX

2-Port SFP slot for 1000Base-X

16-Port 802.3af/at PoE Injector (Port-1 to

PoE Power Output Max. 30W per port PoE Budget 250/380W

Jumbo Frame MAC Address Table 16K

LED Power, Link/ACT, PoE, Speed Power AC Input Voltage: 100V-240V 50/60Hz

Shipping Weight 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

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.

Contact Information

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EPS-2018G

16-Port 10/100Base-TX 802.3at PoE+ With 2-Port Gigabit TP/SFP Combo Switch

User's Guide

Version 1.0