

## EPS-3028

### 24 Gigabit 802.3at PoE + 2 Gigabit RJ-45 + 2 Gigabit RJ-45/SFP Combo Switch



- 24 ports 10/100/1000Mbps IEEE 802.3at PoE+ RJ-45
- + 2 ports 10/100/1000Mbps RJ-45
- + 2 ports Gigabit RJ-45/SFP Combo Switch

#### Features

- **24-port 10/100/1000Base-T RJ-45 Copper**  
Supports full/half duplex, auto-negotiation and auto MDI/MDI-X.
- **IEEE 802.3at/af PoE+ Injector**  
Port 1-24 supports IEEE 802.3at/af PoE+ injector function feature to feed 30W PoE power output to remote devices and facilitate the deployment in the power unreachable environment.
- **4-port Gigabit RJ-45 Uplink Port with 2 shared Gigabit SFP slots**  
Supports 4 100/100/1000Base-T uplink port & 2 shared 1000Base-X SFP slot to ensure high-speed data and video transmission, and reliable assurance for connection between the surveillance system and outside network where the 24 PoE+ ports can be used to their full potential.
- **DIP Switch**  
DIP switch supports “Default”, “VLAN” and “CCTV” mode for different application.
- **19-inch and 1U height rack mountable**  
Plug-and-Play with metal housing, 2 silent fans design to provide stable and efficient power performance.

#### Description

Connection Technology Systems (CTS) EPS-3028 is a unmanaged PoE switch equipped with 24 10/100/1000Mbps RJ-45 PoE+ ports, 2 10/100/1000Mbps RJ-45 and 2 Gigabit RJ-45/SFP combo port that centrally controls VoIP phone, IP surveillance system and wireless AP/gateway for enterprise or SMB.

EPS-3028 delivers wire-speed throughput for data, voice and surveillance/IPTV services, using non-blocking 56Gbps switching fabric. EPS-3028 supports IEEE 802.3at PoE technology, up to 30W per port and maximum 100 meters transmission distance and supports a maximum of 380W of total PoE budget.

EPS-3028 has 3 DIP switch modes that include “Default”, “VLAN” and “CCTV” mode. Default mode is standard switch mode that can communication between port 1-28; VLAN mode is isolation mode that 1-24 port can be isolated each other but 1-24 port can connect to 25-28 port after open VLAN to stop broadcast storm to increase forwarding rate of frame and CCTV mode is extension mode that allows each PoE port to extend distance up to 250 meters at 10Mbps while remaining to support 30W PoE power output.

#### Target Applications

- PoE-enabled device deployments such as IP Surveillance or Wireless AP.
- Extend IP Ethernet transmission and injector power beyond the 100 meters.

## Specification

### Interface

- TP Port:  
24 x 10/100/1000Base-T RJ-45 with 802.3at/af PoE injector function
- 4 x 10/100/1000Base-T RJ-45
- SFP Slot:  
2 x shared 1000Base-X SFP with Port-27 to 28
- DIP switch:  
1 x DIP switch for Default, VLAN and CCTV mode

### 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

### H/W Specification

- MAC Address Table: 8K
- Non-blocking Switching Fabric: 56Gbps
- Throughput @ 64Bytes: 41.67Mpps
- Packet Buffer: 4.1M bit
- Jumbo Frame: 9K
- Store and Forward Switching Mechanism
- Auto-cross Over for MDI/MDI-X in TP Ports
- Auto-negotiation in TP Ports
- Full/Half Duplex Mode Operation
- PoE Power Output: max. 30W per port, Mode A pin 1/2(+), 3/6(-)
- Max. PoE Budget: 380W
- Surge Protection in Ethernet port

### LED

- Power, 10/100M Link/ACT, 1000M Link/ACT, PoE

### Forward/Filter Rate

- 10M: 14,880/14,880pps
- 100M: 148,800/148,800pps
- 1000M: 1,488,000/1,488,000pps

### Power Requirement

- Input AC: 100V-240V 50/60Hz
- Power Consumption: 420W

### Environmental Condition

- Operation: 0°C ~ 50°C
- Storage: -20°C ~ 60°C
- Humidity: 5%~90%, Non-condensing

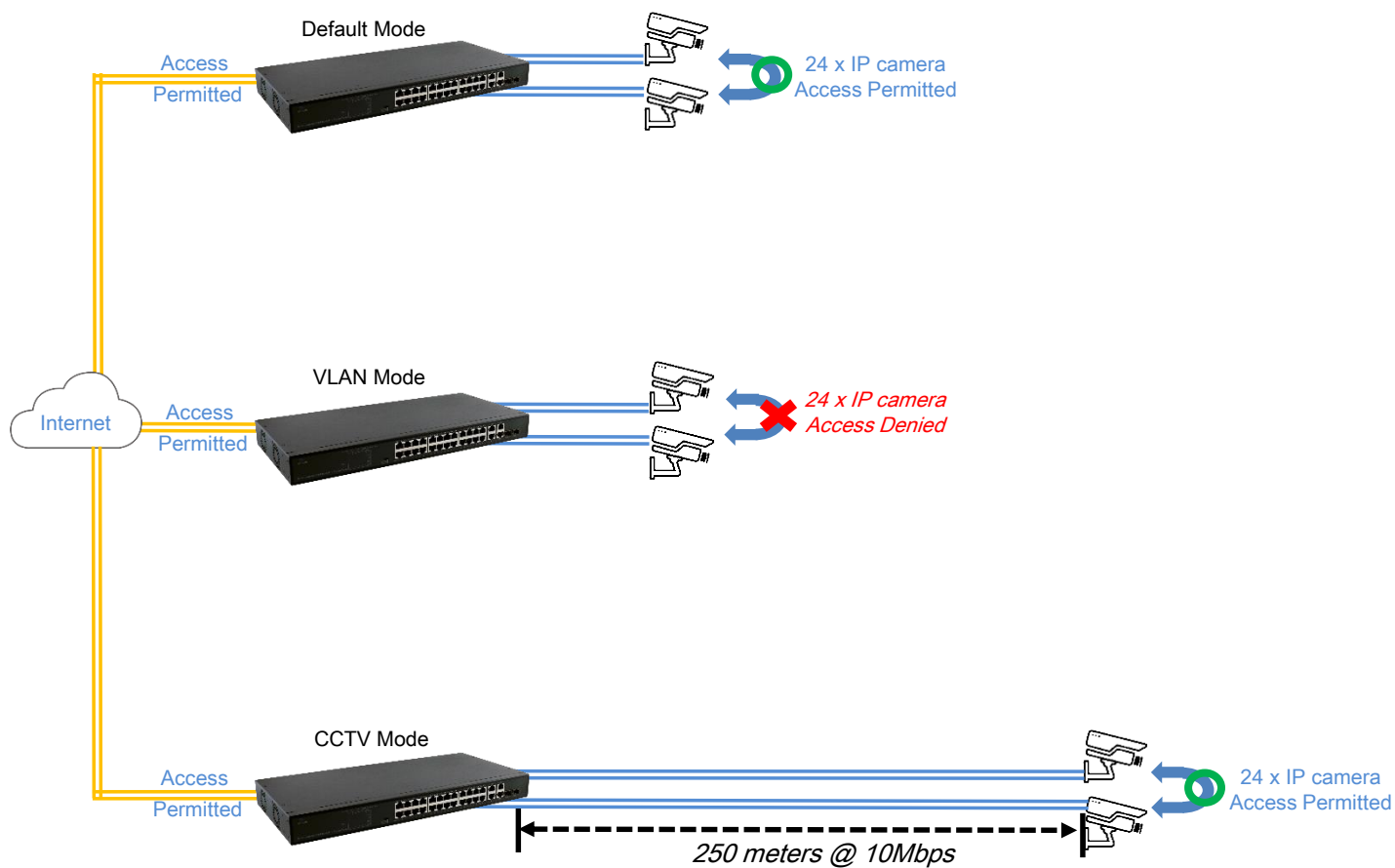
### Dimension & Weight

- Size: 441 x 207 x 44 mm (W x D x H)
- Weight: 4.18Kg

### EMC/Safety

- FCC Class A, CE

## Application Diagram



### Order Information

#### EPS-3028

Model	Fiber Ports					TP Ports			Support Power Source
	Speed	Type	Connector	Distance	Ports	Speed	Non-PoE	PoE	
EPS-3028-380W	1000Mbps	SFP	-	-	2	10/100/1000Mbps	4	24	Fixed 1 Internet AC

### Accessory

#### SFP-31

Model	Fiber Port					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-31FC	1000Mbps	MM	LC	550M	850nm	0 ~ 70°C
SFP-31FC(SM-10/20)	1000Mbps	SM	LC	10/20KM	1310/1310nm	0 ~ 70°C
SFP-31W2A(SM-10/20)	1000Mbps	WDM	LC	10/20KM	TX: 1310/1310nm	0 ~ 70°C
					RX: 1550/1550nm	
SFP-31W2B(SM-10/20)	1000Mbps	WDM	LC	10/20KM	TX: 1550/1550nm	0 ~ 70°C
					RX: 1310/1310nm	