

User Manual

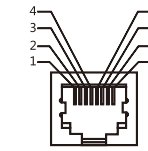
Commercial Series Switches

Version: 1.0

Due to regular upgrades of systems and products, ZKTeco could not guarantee exact consistency between the actual product and the written information in this manual.

7. Indicator Definition

Definition	Indicator	State	Description
PWR	Power Indicator	Light on Light off	Powered Abnormal
SYS	System Indicator	Light on Flash	System Normal System Starting
PoE	PoE Indicator	Light on Light off	PoE Powered No PoE Powered
1000M	Link Rate	Light on Light off	Gigabit 10/100M
100M	Link Rate	Light on Light off	100M Link Disconnect
Link/ACT	Link & Date	Light on Flash	Link is Normal Date Transmission
Mode/SW	Dial Switch Indicator	Light on Flash Light off	VLAN Extend Default
Loop	Loop Alarm	Light on	Port Loop

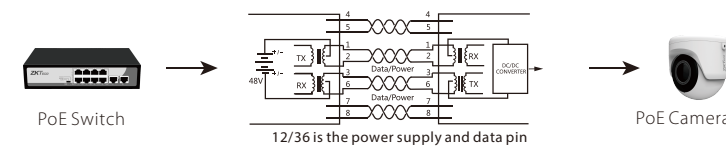


- Standard PoE power supply includes: protocol detection, power pin sequence detection, power output, abnormal protection, Link abnormal monitoring.
- The PoE power supply protocol includes: IEEE802.3af (15.4W), IEEE802.3at (30W), IEEE802.3bt (90W).
- The standard PoE power pin sequence is 12+/36-, and the passive PoE power pin sequence is 45+/78-.
- The standard POE switches can automatically detect and supply power to the PDs that meet the standard, non-POE devices are not powered and only transmit data.
- Passive PoE switches use mandatory power supply mode, non-PoE powered devices may be burned out, please use with caution.
- 24V POE switches have both low-voltage power supply and PD detection technology, which can provide 24V voltage on 45/78 pin, even if it is connected to non-standard equipment, it will not burn out.

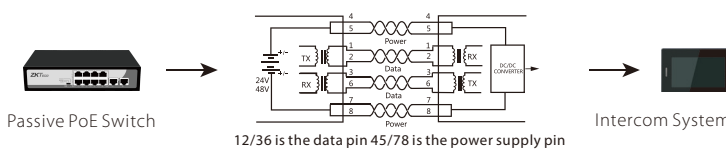
8. PoE Powered Function

※ This function is applicable to PoE switches, not applicable to non-PoE switches.

● Standard PoE Power Supply



● Passive PoE Power Supply

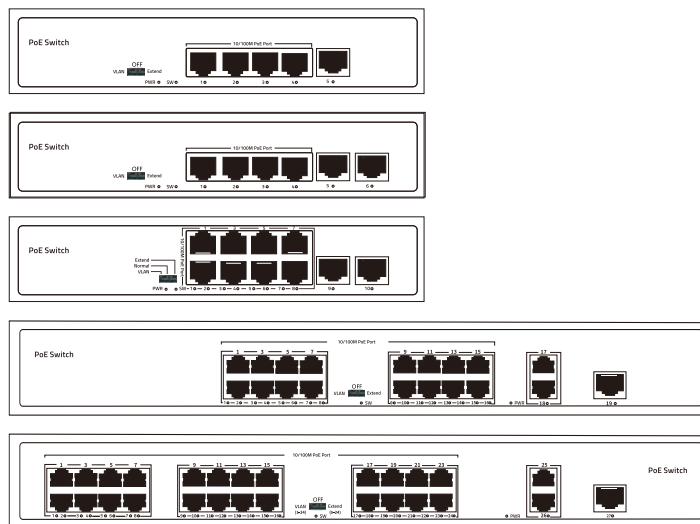


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1. Description



- The products described in this manual, including but not limited to the illustrated products, please refer to the actual product purchased. If any changes on product appearance, please refer to the official product information.
- Management switch connect and login methods are basically the same, this manual only introduces one of them.
- PoE switch and ethernet switch installation methods are the same, the actual use environment and method that depends on the specific product requirement.

2. Packing List

- Switch (Specific model See the product label for more details).
- Power Cable (The default is pluggable or a power cable with built-in power module).
- Power Adapter (Use for some external power products).
- Console Cable, Configurable Disc (Use for managed products).
- Brackets, Screw (Rack type standard, desktop type optional).
- User manual, Certification.

3. Installation Precaution

- Do not install the equipment in the environment of seepage, drip or condensation easily, otherwise the equipment might burn out.
- Please ensure the environment where the equipment is installed is well ventilated, and forbidden to block the cooling holes.
- Do not install the equipment in a high density dust environment.
- If rack switches are in a natural heat dissipation environment, please ensure the separation distance exceeds 1U.
- Do not aerial cabling outdoor, otherwise the equipment is prone to lightning strike.
- Using temperature and humidity depend on the descriptions of the specific product.

4. Safety Precautions

- Do not look directly at the optical port to prevent the laser beam from burning your eyes.
- Do not install the power cord with power on to avoid personal injury.
- Do not supply power before equipment installation and wiring.
- ESD protection is necessary during the installation and maintenance of equipment.
- Do not place objects on the device.

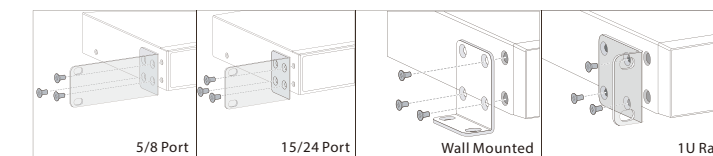
9. States of Switch

Function	Definition	State	Description
VLAN	Port Isolation	Light on	Designated port can not communicate with each other
Extend	Link Extension	Flash	Designated port link extended to 250 meters
Default	Normal Mode	Light off	All ports can communicate with each other
Reset	Reset Button	Flash	Short press restart, long press more than 5 seconds reset configuration
AI PoE	PoE Watchdog	/	PDs crashed and restart automatically
Max	Power Display Indicator	Green Yellow Orange Red	PoE Power output ≤25% PoE Power output ≤50% PoE Power output ≤75% PoE Power output ≥75%

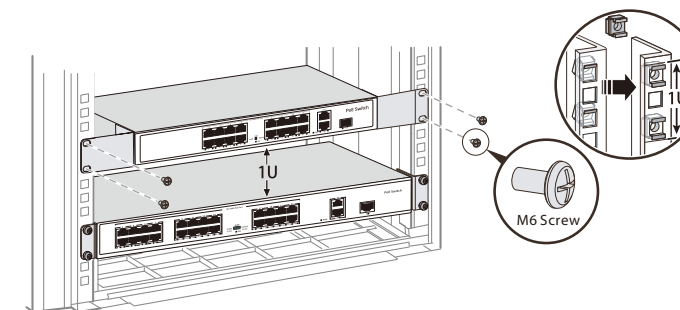
5. Switch Installation

Switches support a variety of installation methods, desktop, wall mounted, rack mount, please install according to the actual environmental requirements.

● Mounting Ear Installation



● Rack Mount Installation



- Install 4 floating screws on the front hole bar of the cabinet, 2 on each side.
- Load the equipment into the cabinet.
- Use M6 screws to secure the equipment with the cabinet/rack.
- Install earth wire to earth connection point.

6. Connecting Equipment

● Network Cable

- When the RJ45 port is on 2.5GE rate, use Cat5E and above network cable.
- When the RJ45 port is on 5GE rate, a shielded network cable of Cat5E and above specifications is required, the unshielded network cable is not recommended.
- When the RJ45 port is on 10GE rate, shielded network cable of Cat6A and above specifications is required.

● Grounding

Ensure that the grounding screw of the equipment is effectively grounded to protect the safety of the equipment.

● Optical Fiber

- Optical fibers must be used with the optical modules.
- Fiber bending radius must not be less than 40 mm.

● Power Cable

- Distance between power cable and network cable should be more than 10cm.
- The AC power please use the local AC power cable.
- The DC power please pay attention to the positive and negative electrodes.

● Console, USB

- Some switches provide USB interfaces for uploading and downloading configuration files to achieve rapid configuration.
- The console interface needs to use the serial line in the package to realize the serial port management.

