

# Ernitec Electra

## PoE Switch T04

The Electra T04 is a 6-port Gigabit AI PoE switch with 4 working modes, AI VLAN mode, AI Extend mode, AI power mode and AI QoS mode. By default, all ports are free to communicate; when AI VLAN mode is enabled, 1-4 ports are isolated from each other, which can effectively suppress network storms and improve network performance.

In the AI Extend mode 1-4 ports can effectively transmit distances up to 250 meters, which is suitable for remote monitoring and power supply. In the AI power mode, the switch automatically detects the working status of the PD device and finds that the abnormal device automatically restarts the device. In the AI QoS mode, when the device is congested, the video data is processed preferentially to make the video smooth.

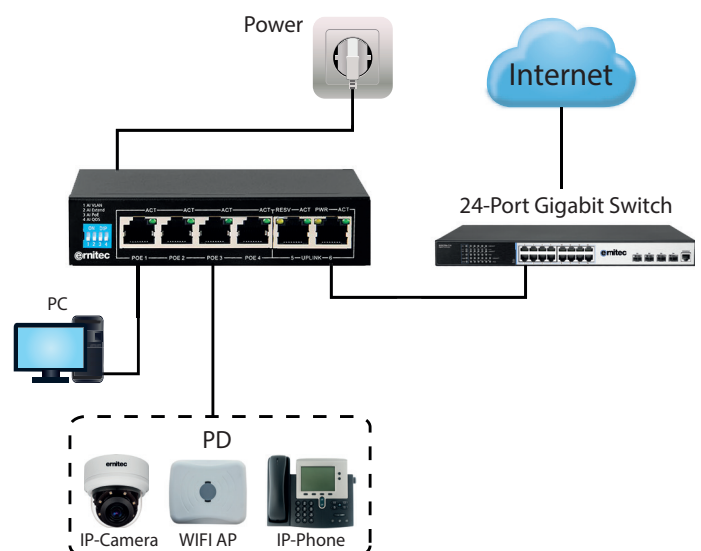
The device supports the standard IEEE 802af/at protocol, which can automatically detect and identify the PDs that comply with the IEEE 802af/at standard and provide power for them, so there is no need to worry about PoE or non-PoE devices that can damage private standards.

### Product Characteristics

- **AI Extend:** 1-4 ports support 250 meters long distance power supply (CAT5e or better)
- **AI VLAN:** Isolating ports 1-4 to each other can effectively suppress network storms and improve network performance.
- **AI QoS:** Prioritize the identified video data to make video transmission smoother.
- **AI PoE:** Automatically detect the power receiving port, find the dead device, power off and restart the device
- Support wireless access points (APs) and network surveillance cameras via CAT5 cables.

- Support IEEE802.3af/at standard PD device.
- Supports uplink port auto-flip (Auto MDI/MDIX).
- Adopt store-and-forward exchange mechanism.
- Intelligent power supply, lowest power consumption, ensure the power demand of the PD terminal.
- With power circuit protection, it can protect the security of the back-end equipment.
- Zero configuration feature power is automatically supplied to the adaptive device.
- No fan design to achieve energy saving and environmental protection.
- Support port no link power saving function.

### Installation diagram (for reference only)



### Specifications

|  |   |
|--|---|
| <b>Network port</b>                          | 4* 10/100/1000Mbps PoE RJ45 port (Port1 – Port4)  |
|  | 2* 10/100/1000Mbps RJ45 port uplink (Port5 – Port6)   |
| <b>Transfer rate</b>                         | 1000Mbps Full Duplex  |
| <b>Network protocol and standard</b>         | IEEE802.3i, IEEE802.3u, IEEE802.3x, IEEE802.3af, IEEE802.3at, IEEE802.3ab                     |
| <b>Performance</b>                           | Bandwidth: 12Gbps (no block)  |
| <b>Frame filtering and transmission rate</b> | 10M port maximum 14.800pps<br>100M port maximum 148.800pps<br>1000M port maximum 1.488.000pps |
| <b>LED indicator</b>                         | Power   |
|  | Link/ACT  |
| <b>PoE pin</b>                               | 1/2 (+), 3/6 (-)  |
| <b>Power</b>                                 | Max power for single port 30W   |
|  | External power adapter 60W  |
| <b>Dimensions</b>                            | Size: L x W x H: 125mm x 75mm x 27mm  |
|  | Weight: 0.5 kg  |
| <b>Environment</b>                           | Operating temperature: 0°~40°C  |
|  | Operating Humidity: 10%~90% Non-condensing  |
| <b>Safety regulation</b>                     | CE/ROHS/FCC/CCC   |

### Indicator status

| Indicator       | Indicator description          | Normal status   | Abnormal status   |
|-----------------|--------------------------------|-----------------|---|
| <b>PWRw</b>     | Power indicator                | Yellow light on | If the light is not on, please check external socket power supply if it is a normal/adaptor power connection, if it is correct or not, etc.   |
| <b>LINK/ACT</b> | PD device connection indicator | Green light on  | If the light is not on, please check the corresponding RJ45 port if connected network devices, PoE power normal, cable connected correctly, cable damaged, network devices destroyed or not, etc. |

### Caution

- For your safety, please don't open the casing of the product.
- Please be careful of the risk of strong current and security protection.
- Please select the right power adaptor provided power for PoE switch, before using please confirm if it is according with the requirement of PoE switch.
- Please don't use PoE switch under the humid environment, keep free from water.
- Please start the power after the circuit is connected.
- Please don't plug-in and plug-out the connection cable when product is powered on.
- Please don't use PoE switch under somewhere with more dust and EME.
- Please don't put heavy thing on PoE switch.
- According to the IEEE802.3AF/AT standard, please use the Cat.5 or above, transmission distance 250m.
- Please don't exceed the maximum output power of PoE switch when it connects more than one PD device.
- PoE switch for indoor use. If you want to use outdoors, please install a waterproof box.

### Item Number & Packing

|                                      |   |
|--------------------------------------|---|
| <b>Item Number</b>                   | ELECTRA-T04                                   |
| <b>Power Supply &amp; Power Cord</b> | 1 x 60W Power adapter, 1 x CEE 7/7 TO IEC C13 |
| <b>Manual</b>                        | Yes   |
| <b>Mounting Option</b>               | Desktop                                       |