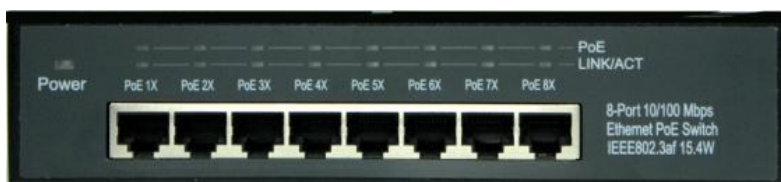




# ST-POEAF-4/8



**8 port switch with 4 PoE ports**

## User Guide

### IMPORTANT

This user's guide contains information on the limitations regarding product use and function and information on the limitations as to liability of the manufacturer. Read the entire guide carefully

**•FCC Warning:**

This device has been tested and found to comply with the regulations for Class B digital equipment. Pursuant to Part 15 of FCC Rules. These limits are designed to prevent harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with users guide, may cause harmful interference to radio communications. Operation of this device in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

**•CE Mark Warning:**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

**•UL Warning:**

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with manufacturer's maximum rated ambient temperature

Reduced Air flow - Installation of equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Uneven Mounting- Installation of equipment in a rack should be even so as to avoid potentially hazardous conditions

**Introduction**

The ST-POEAF-4/8 combines a small-high efficiency 8-port 10/100Mbps Ethernet switch with a standard 802.3 af 4-port Power over Ethernet (PoE) capability. This switch incorporates an external 48VDC power adaptor. Each of the PoE Ethernet ports can provide 15.4 Watts of power as well as 10/100M data transmission over an Inter- connecting Ethernet interface such as Cat 5/ 5e /6 cables.

The ST-POEAF-4/8 is a Power Source Equipment (PSE) and fully compatible with Powered Devices (PD) that comply with the IEEE 802.3 af PoE standard. The ST-POEAF-4/8 enables users to attach IEEE802.3 af compliant devices such as wireless Access Points (APs), VOIP phone, IP camera, printer and Network Attached Storage (NAS) directly to the ST-POEAF-4/8 without requiring additional power on the network. The unit was designed with home and small business users in mind and is ideal for installations where AC power is not available or is not cost-effective.

No configuration is required and installation is quick and easy. Support for Auto – MDI / MDI-X on all of the ports eliminates the need for crossover connection to another switch or HUB. Auto - Negotiation on each port senses the link speed of a network device ( either 10 or 100) and intelligently adjusts for compatibility and optimal performance.

\* This device is designed for indoor use. Do not use outdoors.

\* included are the installation manual and the 48VDC power adaptor.

## Power over Ethernet (PoE) & Features

### •Power Over Ethernet (PoE):

Power over Ethernet (PoE) integrates 48VDC power and data onto one single cable, eliminating the need to have AC power available at all equipment locations. Power and Data are integrated onto the same cable, supporting category 5/5e up to 100 Meters. PoE provides power to PoE compatible devices, such as VOIP telephones, wireless LAN access points, and IP security cameras.

PoE devices are readily in the market, saving up to 50% of overall installation cost by eliminating the need to install separate electrical wiring and power outlets.

### •Features:

- 8 x 10/100Mbps Auto-negotiation Fast Ethernet RJ-45 ports with 4-Port PoE function compliant with IEEE 802.3 af specification.
- Supports PoE power up to 61.6W for all 4 PoE ports.
- Supports PoE IEEE802.3 af compliant Powered Device (PD)
- Each port supports auto MDI/MDIX, so there is no need to use cross-over cables.
- Full/half duplex transfer mode for each port.
- Wire speed reception and transmission.
- Up to 1K unicast address entities per device. Self-learning, and table aging.
- 64KBytes packet buffer.

## Unpacking and Installation

### •Unpacking

Open the shipping carton and carefully unpack its contents. The cartons should include following items:

- One ST-POEAF-4/8 *PoE switch* .
- One 110V~220VAC 48VDC 2.5A power adaptor.
- User's Guide.

If any item is found missing or damaged, please contact your salesperson.

### •Installation:

The installation of the ST-POEAF-4/8 requires the following steps:

- The surface must support at least 2.0Kg (4.4 lbs) for the switch.
- The power outlet should be within 1.5 meters (5 feet) of the switch.
- Visually inspect the DC power jack and make sure that is fully secured to the power adaptor.

Make sure that there is proper heat dissipation from and adequate ventilation around the switch. Do not place any objects on top of the ST-POEAF-4/8.

# Connecting Network Cables

## •Connecting Network Cables

The ST-POEAF-4/8 supports 8 10/100Mbps Ethernet ports. Port 1 to Port 4 are PoE enabled ports. Each port incorporates 10/100Mbps support via UTP Cat5/5e cables.

The 8 PoE ports will automatically activate when a compatible device is identified. The ST-POEAF-4/8 will supply power through the Ethernet port to the connected PoE device on ports 1 thru 4 only.

Legacy devices that are not compatible will not be supplied power. This feature allows users to freely and safely mix legacy and Power over Ethernet compatible devices on a single network.

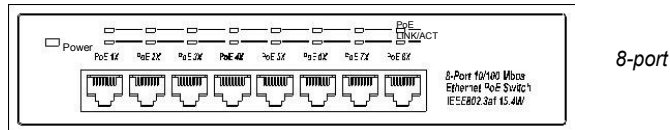
This Switch supports 10Mbps Ethernet or 100Mbps Fast Ethernet and runs both in half and full duplex mode using two pairs of Category 5 or 5e cable.

All ports are Auto-MDI type port. The switch can auto negotiate to MDII or MDI-X type, so you can connect RJ-45 cable regardless of whether it is a standard or crossover cable.

## Description

### •Front Panel:

This is the front panel of the ST-POEAF-4/8, showing the 8 RJ-45 ports and LED display.



#### • Port 1X to 8X :

Standard 10/100Mbps Ethernet port. The Switch supports 10Mbps Ethernet or 100Mbps Fast Ethernet and runs both in half and full duplex mode using two pairs of Category 5 or 5e cable.

#### • PoE Port: PoE1X to PoE4X

All are 10/100Mbps switch ports as well as 802.3 af PoE enabled ports.

All PoE port will automatically activate when a compatible terminal is identified. The ST-POEAF-4/8 will supply power through the Ethernet port to the connected PoE device (PD). It also supports legacy devices that are not compatible. In this case the PoE port will not supply power to those devices. This feature allows users to freely and safely mix legacy and Power over Ethernet compatible devices on the same network.

These RJ-45 ports are Auto-MDI type port. This switch can auto negotiate to MDII or MDI-X type, so you can connect the RJ-45 cable regardless of whether it is a standard or crossover cable.

## Description

### •DC Power Jack and Power switch:

The DC power jack and power switch are located on the rear panel right side of the ST-POEAF-4/8.



Use only the supplied AC/DC adaptor. The use of any incompatible adaptor may cause damage

to the equipment and void the warranty. Press the power switch to turn this device ON or OFF.

## Description

### •LED Indicator:

The LEDs provides instant status feedback, and helps monitor and troubleshoot when required.



Power LED	LED on: Power ON / LED off: Power off.
LINK/ACT	LED on: this port is Link and Active LED off: this port is not correct Link or inactive
PoE (1x to 4x)	LED on: The PoE power device (PD) is connected and the port is supplying power successfully LED off: no PoE power device (PD) connected
Standard	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3x Full Duplex Flow Control IEEE 802.3 af Power over Ethernet
Protocol	CSMA/CD
Data Transfer Rate	Ethernet: 10Mbps (half-duplex), 20Mbps (full-duplex) Fast Ethernet: 100Mbps (half-duplex), 200Mbps (full-duplex)
Network Cables	10BASE-T: 2-pair UTP Cat 3, 4, 5 up to 100 meters. 100BASE-Tx: 2-pair UTP Cat 5, 5e up to 100 meters.
Number of Ports	8 x 10/100Mbps auto-MDIX RJ-45 ports with 4 PoE enabled ports. 8 X 10/100Mbps auto-MDIX RJ-45 ports
PoE power on RJ-45	Power +: ping 3 & ping 6 : Power –” ping 1 & ping 2
AC to DC power adaptor	Input: 100V ~ 240VAC, 50Hz ~ 60Hz. Output: 48VDC/1.5A (AF version) 55VDC/2A (AT version)
Power Consumption	6.4 watts ( max with no PD device connected) 72watts (4 PoE ports AF)
Operating Temperature	33°F ~ 104 °F Storage Temperature: -10°C ~ 70 °C or 14°F ~ 158 °F
Humidity	Relative Humidity: 5% - 95%
Dimensions	190mm W x 139mm D x 43.2mm H
EMI	FCC Class B, CE Mark Class B
Safety	100VAC to 240VAC power adaptor UL listed.
RAM buffer	64K bytes per device
Filtering Address Table	1K entries per device
Packet	10Mbps Ethernet: 14,880/pps
MAC address Learning	Automatic update

**For additional support, please contact SecurityTronix Technical Support:**

**[support@securitytronix.com](mailto:support@securitytronix.com)**

**(800) 688-9282 Press “3” for Tech Support, then “2” for CCTV Tech Support.**