LEVITON®

8-Port PoE Network Switch

Cat. No. POENS-8PT

PoE
Link/ACT

PoE 1X PoE 2X PoE 3X PoE 4X PoE 5X PoE 6X PoE 7X PoE 8X

8-Port 10/100 Mbps
Ethernet PoE Switch
IEEE802.3af 15.4W
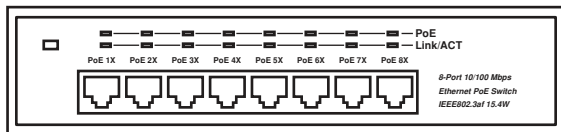
User's Guide

WARNINGS AND CAUTIONS

- **WARNING: TO AVOID DEATH OR SERIOUS PERSONAL INJURY** never push objects of any kind into this product through openings, as they may touch dangerous voltages.
- **WARNING: TO AVOID DEATH OR SERIOUS PERSONAL INJUR**Y never touch uninsulated wires or terminals unless the wiring has been disconnected at the network interface.
- Read and understand all instructions. Follow all warnings and instructions marked on the product.
- **Do not use this product near water** - e.g., near a tub, wash basin, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- Never install communications wiring or components during a lightning storm.
- Never install communications components in wet locations unless the components are designed specifically for use in wet locations.
- Use caution when installing or modifying communications wiring or components.
- Use only the supplied AC adapter. The use of any incompatible adapter may cause damage to the equipment and void the warranty.
- For **indoor** use only.
- SAVE THESE INSTRUCTIONS.

WEB VERSION

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

IC COMPLIANCE

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

WEB VERSION

Table of Contents

WEB VERSION

INTRODUCTION

The POENS-8PT combines a small, high efficiency 8-Port 10/100Mbps Ethernet switch with IEEE 802.3af Power over Ethernet (PoE) capability on all 8 ports. It can be used to provide power to up to 7 Leviton® OmniTouch™ 7 touchscreens (one port must be connected to the network).

The POENS-8PT is a Power Source Equipment (PSE) device that is fully compatible with Powered Devices (PD) that comply with the IEEE 802.3af standard. The PoE ports on the POENS-8PT can also be used to power other Powered Devices (PD), such as the *Leviton* BitWise™ BC4, *Leviton* Door Station, *Leviton* PoE IP cameras, PoE Wireless Access Points, PoE Printer, etc., without requiring additional power on the network. Each of the PoE ports can provide 15.4 Watts of power as well as 10/100M data transmission through the traditional UTP cable to the Powered Device.

The POENS-8PT is supplied with an external 48 VDC power adapter. No configuration is required and installation is quick and easy. Support for automatic MDI / MDI-X on all of the ports eliminates the need for a crossover connection to another switch or hub. Auto-negotiation on each port senses the link speed (100 Mbps or 10 Mbps) of a network device and intelligently adjusts for compatibility and optimal performance.

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

POWER OVER ETHERNET (PoE)

Power Over Ethernet (PoE):

Power over Ethernet (PoE) integrates 48V power and data onto one single cable, eliminating the need to have power available at the equipment locations. Power and data are integrated onto the same cable, up to 100 meters (328 feet).

Features:

- 8 x 10/100Mbps Auto-negotiation Ethernet RJ-45 ports with PoE on all 8 ports.
- Compliant with IEEE 802.3af specification.
- Supports PoE power up to 112 W total, for all PoE ports.
- Supports PoE IEEE 802.3af 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 1000 unicast address entities per device, self-learning, and table aging.
- 64K Byte packet buffer.

INSTALLATION

Unpacking:

Open the shipping carton of the POENS-8PT and carefully unpack its contents:

- POENS-8PT (8-Port PoE Network Switch)
- AC Power adapter
- User's Guide

Installation:

- The surface must support at least 4.4 lb and a power outlet should be within 5 feet of the switch.
- Visually inspect the DC power jack and make sure that is fully secured to the power adapter.
- Make sure that there is proper heat dissipation from and adequate ventilation around the switch.

NOTE: DO NOT place heavy objects on the switch.

CONNECTING NETWORK CABLES

Connecting Network Cables:

The POENS-8PT has 8 10/100Mbps Ethernet ports. Each port incorporates 10/100Mbps support using traditional UTP cables. Each of the 8 PoE ports will automatically activate when a compatible device is identified. The POENS-8PT will supply power through the port to the connected PoE device (PD).

Legacy devices that are not compatible will not be supplied power. This feature allows users to freely and safely mix legacy and PoE compatible devices connected to switch.

This Switch supports 10Mbps Ethernet or 100Mbps Ethernet and runs both in half and full duplex mode using two pairs in the cable.

All ports are automatic MDI ports. The switch can auto negotiate to MDI or MDI-X, so you can connect either a standard network or crossover cable.

When connecting an *OmniTouch* 7 touchscreen to the network, a UTP Cat-5/5e (4-pair) cable is required for operation. Run the cable between the location of the POENS-8PT and the location of the *OmniTouch* 7 touchscreen.

WEB VERSION

FRONT PANEL

There is an LED power indicator and 8 RJ-45 ports with LED status indicators on the front panel of the POENS-8PT. The LED status indicators provide status for each of the ports.
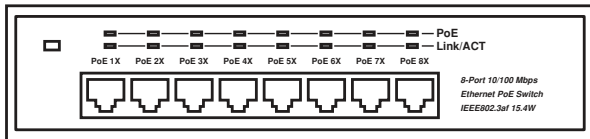
Ports:

PoE Ports: PoE1X to PoE8X

- All ports are 10/100Mbps 802.3af PoE enabled ports.
- All ports will automatically activate when a compatible PoE device is identified. The POENS-8PT will supply power through the Ethernet port to the connected PoE device (PD).
- The POENS-8PT also supports legacy devices that are not PoE compatible. In this case, the PoE ports will not supply power to those devices. This feature allows users to freely and safely connect legacy and PoE compatible devices to the switch.

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

FRONT PANEL LED INDICATORS

The LED status indicators provide status for each of the ports and can be used for monitoring and troubleshooting when required.
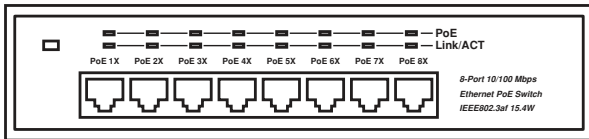
Power LED	LED on: Power On; LED off: Power off
LINK/ACT	LED on: this port is Linked and Active
	LED off: this port is not Linked or inactive
PoE (1x to 8x)	LED on: A PoE Powered Device (PD) is connected and the port is supplying power
	LED off: A PoE Powered device (PD) is not connected; the port is not supplying power

REAR PANEL

Power Jack and Power Switch:

The power jack and power switch is located on the left side of the rear panel of the POENS-8PT.

Press power switch to turn the device ON/OFF.

NOTE: Use only the supplied AC adapter. The use of any incompatible adapter may cause damage to the equipment and void the warranty.

TECHNICAL SPECIFICATIONS

Standards	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3x Full Duplex Flow Control IEEE 802.3af 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 RJ-45 ports with 8 PoE enabled ports
AC power adapter	**Input**: 100 - 240 VAC, 50 - 60 Hz **Output**: 48 VDC, 2.5 A
Power Consumption	6.4 Watts, maximum (with no Powered Devices connected) 112 Watts (8 PoE ports fully loaded)
Temperature/ Humidity	**Operation**: 32˚F - 104˚F (0˚C - 40˚C) **Storage**: 14˚F - 158˚F (-10˚C - 70˚C) **Relative Humidity**: 5% - 95%
Dimensions	6.29 in. (W) x 3.7 in. (D) x .82 in. (H) 16 cm (W) x 9.4 cm (D) x 2.1 cm (H)

LEVITON®

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320.**

LEVITON LIMITED WARRANTY

WEB VERSION