

## Product No: 105TX-POE

### RED LION 5 PORT UNMANAGED INDUSTRIAL POE SWITCH, 105TX-POE



#### General Information

Brand	RED LION
Product Type	Unmanaged
Series	N-Tron Networking

#### Technical Attributes

Current Consumption (mA)	Full Load: 1600 at 48VDC, No PoE: 65 at 48VDC
No. of Ports	4 x 10/100BASE-TX w/PoE RJ45, 1 x 10/100BASE-TX RJ45
Rated Operational Voltage DC (V)	46 - 49
Switch Type	Switch - Unmanaged

#### Physical Attributes

Mounting Type	DIN-Rail
Operational Temperature Range (°C)	-40 to +85

#### Dimensions

Dimensions (mm)	97H x 38W x 90D
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#### Protection & Standards

Standards and Approvals	FCC, ICES-003, EN61000-6-2, UL508, IEEE1613
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#### Resources



Product catalogue (Flipbook)

[Download from here](#)

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## DIMENSIONS

# 105TX-POE Industrial Ethernet Switch

N-Tron Networking Series



## ▶▶▶ Unmanaged Industrial Ethernet Switch

The N-Tron® 105TX-POE Unmanaged Industrial Ethernet Switch is designed to transmit power, along with data, over an Ethernet network and is ideal for PoE capable devices where running an AC power feed is either not possible or cost effective. This feature allows an end user to power a PoE camera, wireless access point, or any other PoE capable device without the need for running separate wires for power. This also allows the ability for a centralized battery backup for all these devices.

### PRODUCT FEATURES

- Compact, Space Saving Package
- Full IEEE 802.3 and 802.3af Compliance
- American Bureau of Shipping (ABS) Type Approval
- Certified for Rail Applications
- Five 10/100BaseTX RJ-45 Ports (4 Mode A PoE Ports)
- Unmanaged Operation
- Extended Environmental Specifications
  - -40°C to 85° Operating Temperature
- Automatic Detection of Connected PoE Devices
- Support for Full/Half Duplex Operation
- Auto-sensing Duplex, Speed, and MDIX
- Up to 1.0 Gb/s Maximum Throughput
- Full Wire Speed Communications
- Supports 15.4 Watts per port (13 Watts at the PD)
- Redundant Power Inputs (46-49 VDC)
- Power Fault Status LED's
- LED Link/Activity Status Indication
- LED PoE Status Indication
- Hardened Metal DIN-Rail Enclosure

### PRODUCT OVERVIEW

The 105TX-POE Industrial Network Switch is designed to meet the most demanding industrial communications requirements by providing high throughput and minimum downtime while also providing power to PoE capable devices over the Ethernet network.

The 105TX-POE provides five RJ-45 auto sensing 10/100BaseTX ports. All ports are full/half duplex capable, using "state of the art" Ethernet switching technology. Four of the five RJ-45 ports also act as PoE ports allowing power to pass through four of the eight strands of CAT5 cable. Each PoE port supports up to 15.4 watts of power.

The 105TX-POE auto-negotiates the speed and flow control capabilities of the five TX port connections, and configures itself automatically.



The N-Tron 105TX-POE also supports up to 2,000 MAC addresses, enabling these products to support extremely sophisticated and complex network architectures.

The 105TX-POE automatically detects any PoE device that is connected and powers it accordingly. If a PoE fault is detected on a specific port the auto-disconnect feature disables PoE power on that port, allowing only data communications to pass. This reduces the risk of damaging costly equipment.

The 105TX-POE is an ideal candidate for providing data and power to wireless LAN access points, network cameras, VoIP, and other PoE capable devices. The product also helps reduce costs by eliminating the need for electrical wiring and electrician expenses.

The 105TX-POE has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience it can be DIN-Rail mounted alongside Ethernet I/O or other Industrial Equipment.

To increase reliability the 105TX-POE provides dual redundant power inputs. Two power LED's are also provided on this unit indicating a valid power source on both the redundant power inputs and also indicating when a power fault bus occurs.

industrial  
networking