

105TX-POE

The *N-TRON*[®] 105TX-POE Unmanaged Industrial Ethernet Switch is designed to trasmit 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
- EN50155 for Railway applications
- Five 10/100BaseTX RJ-45 Ports (4 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 105FX-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 reducing 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.



==== ISO 9001:2000 ==

105TX-POE SPECIFICATIONS Ca

Case Dimensions Height: Width: Depth: Weight: DIN-Rail:	3.5" (9.7cm) 1.5" (3.8 cm) 3.6" (9.0 cm) 0.7 lbs. (0.3 kg) 35mm
Electrical Input Voltage: Steady Input Current Under Full Load: Steady Input Current with No PoE, Switch Full Load: Inrush:	46-49 VDC 1.6 A@48V 65mA@48V 26Amp/1.3ms@48V
Environmental Operating Temperature: Storage Temperature: Operating Humidity: Operating Altitude:	-40°C to 85°C -40°C to 85°C 10% to 95% (Non Condensing) 0 to 10,000 ft.
Reliablity MTBF:	>2 Million Hours
Network Media 10BaseT: 100BaseTX:	>Cat3 Cable >Cat5 Cable
Connectors 10/100BaseTX+PoE: 10/100BaseTX:	Four (4) RJ-45 TX/PoE Copper Ports One (1) RJ-45 TX
Copper PortRecommended Wiring ClearanceFront:2" (5.08 cm)Top:1" (2.54 cm)	
	2" (5.08 cm) 1" (2.54 cm)
	2" (5.08 cm) 1" (2.54 cm)

100-MDR-1 Metal Din Rail Option*

NTPS-48-5 **DIN-Rail Power Supply** 48V@ 5 Amp

MDR option must be specified with switch order - not field upgradable

BENEFITS

PoE Industrial Network Switch

- Compact Size / Small Footprint
- Ability to Power Devices via LAN
- Eliminates need for Costly Electrical Wiring
- Extended Environmental Specifications
- Hardened Metal DIN-Rail Enclosure
- High Performance
- High MTBF >2M Hours
- ESD Protection Diodes on RJ-45 Ports
- Surge Protection Diodes on Power Inputs

Ease of Use

- Plug & Play Operation
- Auto Sensing 10/100BaseTX
- Auto Sensing Full/Half Duplex
- MDIX Auto Cable Sensing
- Unmanaged Operation
- Auto Detection of Connected PoE Devices
- Redundant Power Status LED's

Increased Performance

- Full Wire Speed Capable
- Full Duplex Capable
- Eliminates Network Collisions
- Increases Network Determinism
- Auto-Disconnect of PoE Port if Fault is Detected

Regulatory Approvals

FCC Title 47 Part 15 Class A; ICES-003- Class A CE: EN61000-6-2,4: EN61000-4-2,3,4,5,6 EN55011 UL Listed (US and Canada) per ANSI/ISA-12.12.01-2000, Class I, Div 2, Groups A,B,C,D,T4A;

ABS Type Approval for Shipboard Applications DNV Type Approval Certification EN50155 for Railway Applications GOST-R Certified; RoHS Compliant

Designed to comply with: IEEE 1613 for Electric Utility Substations and NEMA TS1/TS2 for Traffic Control Equipment

Contact Information

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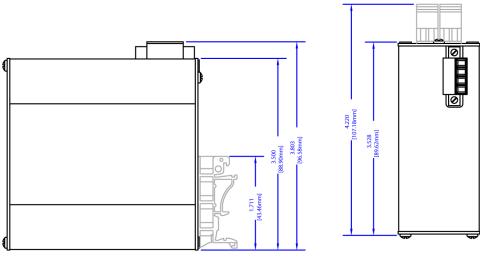
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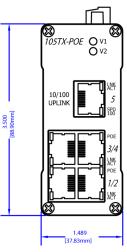
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105TX-POE with Standard DIN rail Mount





Optional 100-MDR-2 Metal DIN Rail Mount

