

105TX

The *N-TRON®* 105TX is a low cost unmanaged five port Industrial Ethernet Switch. It is housed in a hardened, metal, DIN-Rail enclosure, and is designed for use in mission critical data acquisition, control, and Ethernet I/O applications.

PRODUCT FEATURES

- Compact, Space Saving Package
- Full IEEE 802.3 Compliance
- American Bureau of Shipping (ABS) Type Approval
- EN50155 for Railway applications
- Five 10/100BaseTX RJ-45 Ports
- Unmanaged Operation
- Extended Environmental Specifications
 - -40°C to 80°C Operating Temperature
 - >2M Hours MTBF
- Supports Full/Half Duplex Operation
- Up to 1.0Gbs Maximum Throughput
- MDIX Auto Sensing Cable
- Auto Sensing Speed and Flow Control
- Full Wire Speed Communications
- Store-and-forward Technology
- Redundant Power Inputs (10-30 VDC)
- LED Link/Activity Status Indication
- Hardened Metal DIN-Rail Enclosure

PRODUCT OVERVIEW

The 105TX Industrial Network Switch is designed to solve the most demanding industrial communication requirements while providing high throughput and minimum downtime.

The 105TX provides five RJ-45 auto sensing 10/100BaseTX ports. All ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The 105TX auto-negotiates the speed and flow control capabilities of the five TX port connections, and configures itself automatically.

Since the 105TX is auto sensing, there will be no need to make extensive wiring changes if upgrades are made to host computers, plant systems, or Ethernet I/O modules. The switching fabric simply scales up or down automatically to match specific network environments.



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

The is an ideal candidate for upgrading existing hubs and repeaters to increase bandwidth and determinism by virtually eliminating network collisions. The *N-TRON 105TX* combines affordability and the plug & play simplicity of the unmanaged hub.

The 105TX can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The 105TX 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 provides dual redundant power inputs. LED's are provided to display the link status and activity of each port.



QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV

=== ISO 9001:2008 ==

105TX SPECIFICATIONS

Case Dimensions

 Height:
 2.9" (7.3cm)

 Width:
 1.5" (3.8 cm)

 Depth:
 3.6" (9 cm)

 Weight:
 0.6 lbs. (0.28 kg)

DIN-Rail: 35mm

Electrical

Input Voltage: 10-30 VDC Steady Input Current: 215mA@24V

Inrush: 7.8Amp/0.7ms@24V

Environmental

Operating Temperature: -40°C to 80°C Storage Temperature: -40°C to 85°C Operating Humidity: 10% to 95%

(Non Condensing)

Operating Altitude: 0 to 10,000 ft.

Shock and Vibration (bulkhead mounted)

Shock: 200g @ 10ms

Vibration/Seismic: 50g, 5-200Hz, Triaxial

Reliablity

MTBF: >2 Million Hours

Network Media

10BaseT: >Cat3 Cable 100BaseTX: >Cat5 Cable

Connectors

10/100BaseTX: Five (5) RJ-45 TX

Copper Ports

Recommended Wiring Clearance

Front: 2" (5.08 cm) Top: 1" (2.54 cm)

Ordering Information

105TX Five 10/100BaseTX Ports

NTPS-24-1.3 DIN-Rail Power Supply 24V@1.3 Amp

100-MDR-1 Metal Din Rail Option*

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

BENEFITS

Industrial Network Switch

- · Compact Size / Small Footprint
- 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 Negotiation Full/Half Duplex
- MDIX Auto Cable Sensing
- Unmanaged Operation

Increased Performance

- Full Wire Speed Capable
- Full Duplex Capable
- · Eliminates Network Collisions
- Increases Network Determinism

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-12.12.01-2007, Class I, Div 2, Groups A,B,C,D,T4A

GOST-R Certified

ABS Type Approval for Shipboard Applications

DNV Type Approval Certification EN50155 for Railway Applications

RoHS Compliant

Designed to comply with:

IEEE 1613 for Electric Utility Substations NEMA TS1/TS2 for Traffic Control Equipment

Contact Information

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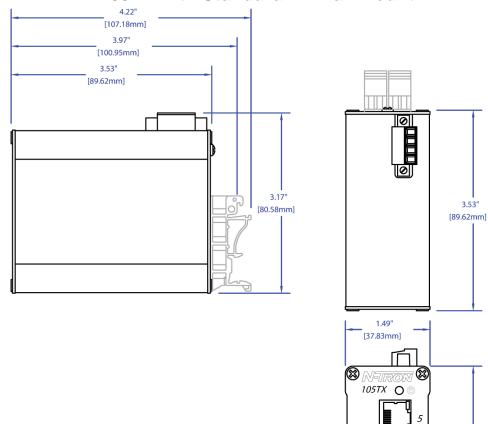


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=== ISO 9001:2008 =

2.87" [72.90mm]

105TX with Standard DIN rail Mount



Optional 100-MDR-1 Metal DIN Rail Mount

