1005TX Industrial Ethernet Switch

N-Tron Networking Series

▶▶▶ Unmanaged Gigabit Industrial Ethernet Switch

Red Lion's N-TRON® 1005TX is a low cost unmanaged five port Gigabit Industrial Ethernet Switch.

Housed in a hardened, metal DIN-Rail enclosure, the 1005TX is designed for use in mission critical data acquisition, control, and Ethernet I/O applications where Gigabit capability is required. The 1005TX Gigabit network switch is designed to solve the most demanding industrial communication requirements while providing high throughput and minimum downtime.

APPLICATIONS

- Factory Automation
- Utilities
- SCADA
- Security Surveillance
- Transportation
- Alternative Energy

PRODUCT HIGHLIGHTS

- Compact, Industrial Design
- Up to 5 port connections
- High Environmental Specifications
- Increased Networking Performance
- Plug-and-Play Operation

FEATURES & BENEFITS

- Compact, Space Saving Package
- Full IEEE 802.3, 802.3u, and 802.3ab Compliance
- Five 10/100/1000BaseT RJ-45 Ports
- Unmanaged Operation
- Extended Environmental Specifications
  - -40ºC to 85º Operating Temperature
  - >2M Hours MTBF
- Supports Full/Half Duplex Operation
- Up to 10.0 Gb/s Maximum Throughput
- MDIX Auto Sensing Cable
- Auto Sensing Speed and Flow Control
- Full Wire Speed Communications
- Supports up to 4,000 MAC Addresses
- Store-and-Forward Technology
- Jumbo Frame support
- Redundant Power Inputs (10-30 VDC)
- LED Link/Activity Status Indication
- Hardened Metal DIN-Rail Enclosure

industrial networking

1005TX Specifications

SWITCH PROPERTIES

Operation: Unmanaged
Number of Mac Addresses: 4,000
Full IEEE Compliant: 802.3, 802.3u, and 802.3ab
Switching Method: Store and forward
Activity Status Indication: LED link
MTBF: >2 million hours
Supports Full/Half Duplex Operation
Maximum Throughput: Up to 10.0 Gb/s
MDIX Auto Sensing Cable
Auto Sensing Speed and Flow Control
Communications: Full Wire Speed

POWER INPUT

Input Voltage: 10-30 VDC
Steady Input Current: 230 mA @ 24 V
Inrush: 13 Amp / 61 us @ 24 V
BTU/HR: 18.8

CONNECTORS

10/100/1000BaseT: Five (5) RJ-45 TX copper ports

NETWORK MEDIA

10BaseT: ≥ Cat3 Cable
100BaseTX: ≥ Cat5 Cable
1000BaseT: ≥ Cat5e Cable

RECOMMENDED WIRING CLEARANCE

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

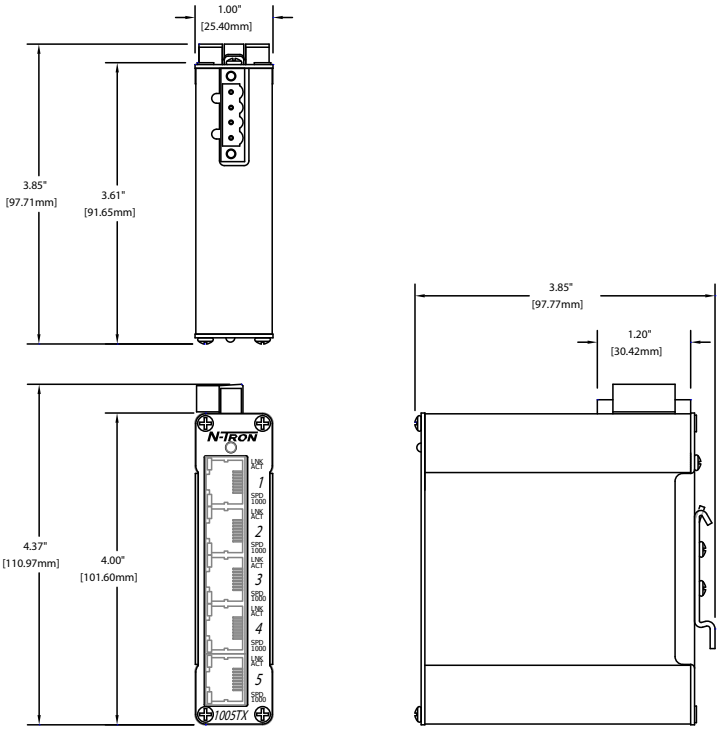
CERTIFICATION & COMPLIANCE

FCC/CE (CFR 47, Part 15, Subpart B, Class A)
EN 61000-6-2/4, IEC 61000-4-2/3/4/5/6
EN 55011, ICES-003
UL Class I, Division 2, Groups A, B, C and D; T4
UL 508, ANSI/ISA-12.12.01-2013 Class I and II, Division 2 and Class III, Division 1 and 2
cUL: C22.2 No. 14-M05, C22.2 No. 213-M1987 Class I, Division 2 Hazardous Locations
Rail: EN 50155, EN 50121 and EN 61373
ABS Type Approval for Shipboard Applications
DNV-GL Type Approval Certification
RoHS Compliant
Designed to comply with: IEEE 1613 for Electric Utility Substations
NEMA TS1/TS2 for Traffic Control

ENVIRONMENTAL

Operating Temperature: -40°C to 85°C
Storage Temperature: -40°C to 85°C
Operating Humidity: 10% to 95% (Non Condensing)
Operating Altitude: 0 to 10,000 ft.
Shock: 200 g @ 10 ms
Vibration/Seismic: 50 g, 10-200 Hz, triaxial

DIMENSIONS



MECHANICAL

Case Dimensions
Height: 4.0" (10.2 cm)
Width: 1.0" (2.6 cm)
Depth: 3.7" (9.4 cm)
Weight: 0.61 lbs. (0.27 kg)
Mount: DIN Rail 35 mm

ORDERING GUIDE

PART NUMBER	DESCRIPTION
1005TX	Five 10/100/1000Base T Ports
1000-PM	Panel Mount Kits
NTPS-24-1.3	DIN-Rail Power Supply 24V@1.3 Amp

All specifications are subject to change. Consult the company website for more information.

RED LION®