

# 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
  - -40°C to 85° 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



# ▶▶▶ Unmanaged Gigabit Industrial Ethernet Switch 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)

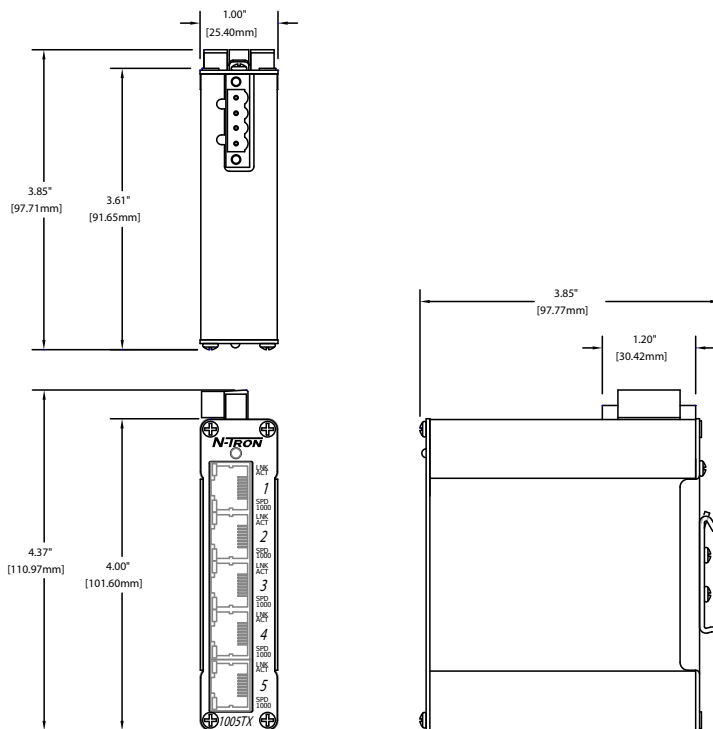
## CERTIFICATION & COMPLIANCE

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 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.