

# 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



# ▶▶▶ 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)

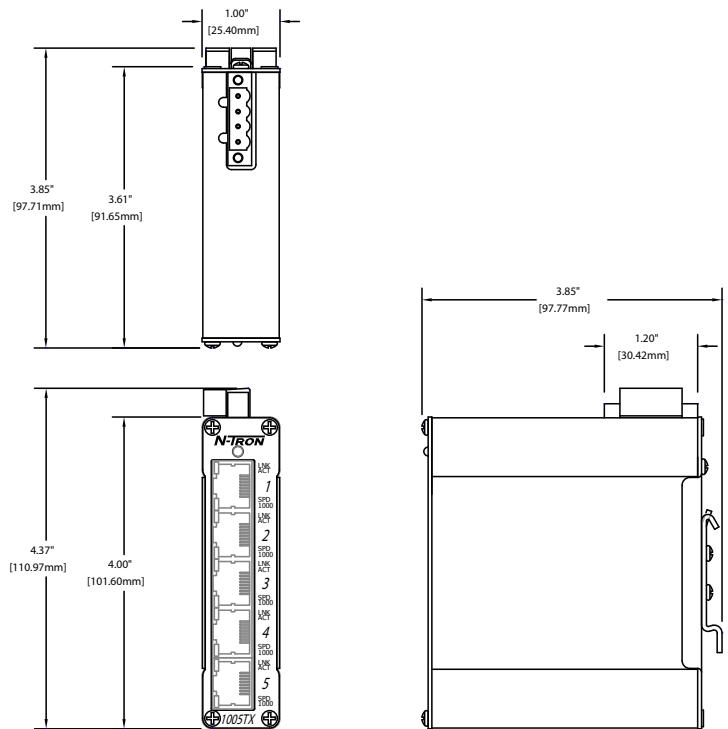
## CERTIFICATION & COMPLIANCE

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.



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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit [www.redlion.net](http://www.redlion.net).

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