1005TX Industrial Ethernet Switch

N-Tron Networking Series

red lion®

►►► 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

FC   UL LISTED 65SN   CE   РС   RoHS compliant   ABS TYPE APPROVED PRODUCT

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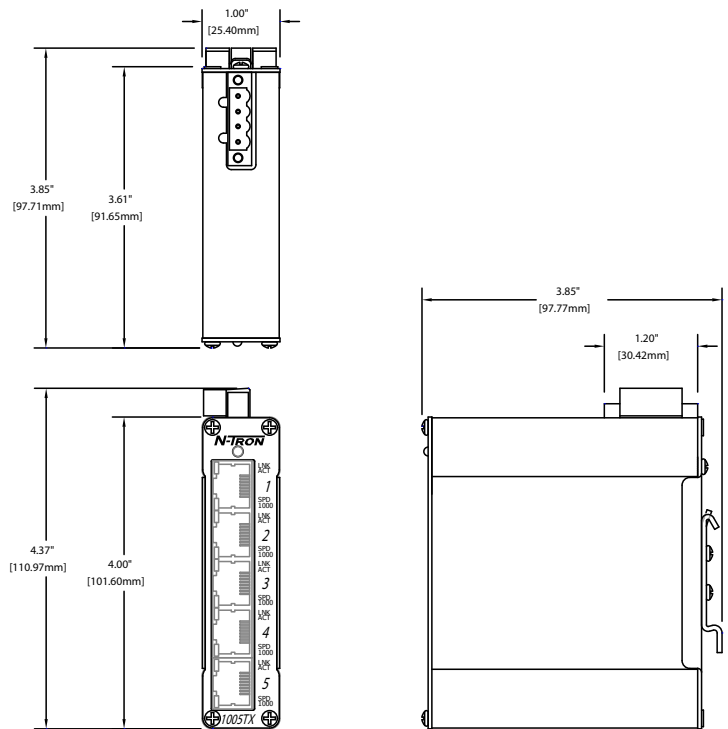
Front: 2" (5.08 cm)
Top: 1" (2.54 cm)

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.

www.redlion.net

Connect. Monitor. Control.

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.