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# NT24k<sup>®</sup>-8TX Industrial Ethernet Switch

N-Tron<sup>®</sup> Networking Series



## ▶▶▶ Industrial Managed Gigabit Ethernet Switch

Red Lion's N-Tron<sup>®</sup> series NT24k<sup>®</sup>-8TX compact managed Gigabit Ethernet switch features eight 10/100/1000Base-T(X) ports providing a reliable and secure communication network to equipment in harsh environments.

The versatile NT24k-8TX managed switch features 8 ports (eight Gigabit copper ports) and is housed in a compact, hardened metal DIN-rail enclosure with redundant 10-49 VDC power inputs. Designed to handle the most demanding environments, the NT24k-8TX offers wire-speed throughput, expanded shock and vibration ratings and wide -40° to 85°C operating temperature rating. IGMP auto-configuration, IEEE 802.1x with RADIUS remote server authentication and N-Ring™ fast healing ring technology ensure quick deployment and robust secure network communications in alternative energy, factory automation applications, transportation and water/wastewater.



### APPLICATIONS

- > Alternative Energy
- > Manufacturing
- > Oil & Gas
- > Transportation
- > Water/Wastewater

### PRODUCT HIGHLIGHTS

- > Copper Ports
- > Smart Plug-and-Play Operation
- > 10 to 49 VDC Redundant Power Inputs
- > -40° to 85°C Wide Operating Temperature
- > Robust Remote Monitoring
- > N-Ring & N-Link™ Network Ring Technology

### FEATURES & BENEFITS

- > 8 Copper Ports
  - Eight 10/100/1000Base-T(X) copper ports
- > Redundant 10 to 49 VDC Power Inputs
  - Keeps network running in the event of a power supply failure
- > Extended Environmental Specifications
  - -40° to 85°C operating temperature range
  - > 2M hours MTBF
  - UL/cUL: Class I, Div. 2 Groups A, B, C and D
- > Plug-and-Play Operation:
  - IGMP auto-configuration
  - MDIX auto-sensing cable
  - Simple network ring configuration
  - Backup and restore via recovery card or XML
- > Fully Managed Features Include:
  - Jumbo frame support
  - SNMP v1, v2, v3
  - Web browser management
  - Detailed ring map and fault location charting
  - RSTP - 802.1d, 802.1w, 802.1D
  - Trunking and port mirroring
  - 802.1Q tag VLAN and port VLAN
  - IEEE 802.1x with RADIUS remote server authentication
  - 802.1p QoS, port QoS and DSCP
  - DHCP client
  - Event Log
  - SNTP (Simple Network Time Protocol)
  - Multi-Member N-Ring technology with ~30ms healing
  - N-Link redundant ring technology
  - N-View™ monitoring technology
  - EtherNet/IP™ CIP™ messaging

industrial  
networking



EtherNet/IP™



# ▶▶▶ NT24k-8TX Specifications

## SWITCH PROPERTIES

Operation: Managed  
 Number of MAC Addresses: 16,000  
 IEEE Compliance: 802.3, 802.3u, 802.3ab, 802.3x,  
 802.1d/D/w, 802.1p, 802.1Q, 802.1x  
 Latency (Typical): 1.6 µs  
 Switching Method: Store-and-Forward  
 LED Status Indicators  
 Configurable Alarm Contact  
 Onboard Temperature Sensor  
 Supports Full/Half Duplex Operation  
 Maximum Throughput: Up to 16 Gb/s  
 MDIX Auto Sensing Cable  
 Auto Sensing Speed and Flow Control  
 Communications: Full Wire Speed  
 MTBF: >2 million hours

## POWER INPUT

Input Voltage: 10-49 VDC  
 Steady Input Current: 490 mA @ 24 VDC  
 Inrush: 22 A / .33 ms @ 24 VDC  
 BTU/HR: 40.14

## CONNECTORS

10/100/1000BaseT: Eight (8) RJ-45 ports  
 ESD and surge protection diodes on all copper ports  
 Configuration Port: One (1) USB Type B

## NETWORK MEDIA

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

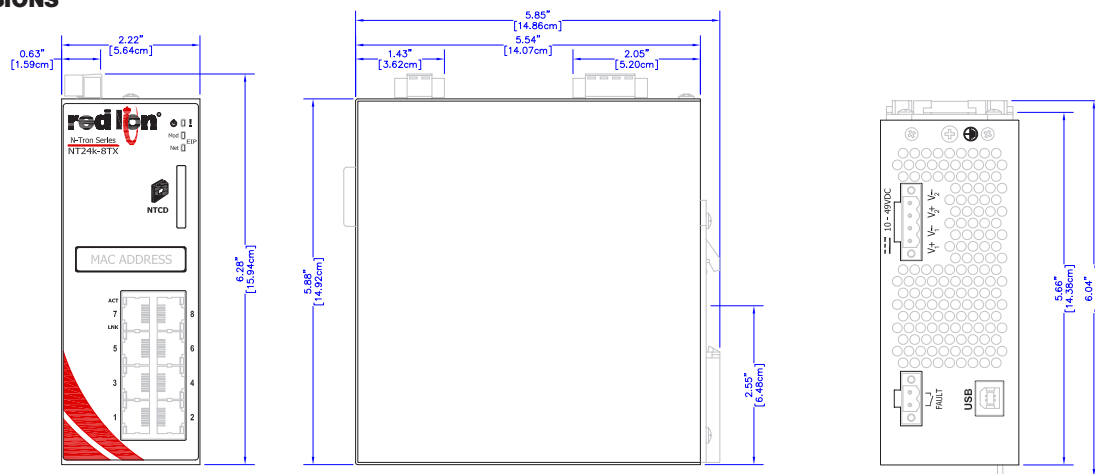
## RECOMMENDED WIRING CLEARANCE

Front: 2" (5.08 cm)  
 Top: 4" (10.16 cm)

## 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 (bulkhead mounted)  
 Vibration: 50 g @ 5-20 Hz, Triaxial (bulkhead mounted)

## DIMENSIONS



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

## CERTIFICATION & COMPLIANCE

Product Safety:  
 ANSI/ISA 12.12.01-2013 Class I and II, Div. 2 and Class III, Div. 1 and 2, Groups A, B, C and D Hazardous Locations  
 UL508 Industrial Control Equipment  
 CAN/CSA-C22.2 No. 213-M1987 Class I Div. 2 Hazardous Locations  
 CAN/CSA-C22.2 No. 14-M1987 Industrial Control Equipment  
 Emissions:  
 FCC Title 47, Part 15, Radio Frequency Devices, Subpart B ANSI C63.4-2009; Industry Canada ICES-003, EN 55011; EN 61000-6-4, EN 61000-3-2, EN61000-3-3, EN 55032  
 Immunity:  
 EN 55024, EN 61000-6-2; IEC 61000-4-2 (ESD); IEC 61000-4-3 (RFAM); IEC 61000-4-4 (EFT); IEC 61000-4-5 (SURGE); IEC 61000-4-6 (RFCM); IEC 61000-4-8 (PFMF); IEC 61000-4-11 (VDI)  
 Rail:  
 EN 50155, EN 50121 and EN 61373  
 Designed to Comply with:  
 IEEE 1613 (Electric Utility Substations), NEMA TS1/TS2 (Traffic Control)  
 Other:  
 ABS Type Approval for Shipboard Applications; EMC Directive 2014/30/EU; LV Directive 2014/35/EU GOST-R, RoHS Compliant

## MECHANICAL

Case Dimensions:  
 Height: 5.88" (14.92 cm)  
 Width: 2.22" (5.64 cm)  
 Depth: 5.54" (14.07 cm)  
 Weight: 1.68 lbs (0.76kg)  
 Mount: DIN Rail 35 mm

## WARRANTY

3 Years on Design and Manufacturing Defects

## ORDERING GUIDE

PART NUMBER	DESCRIPTION
NT24K-8TX	Eight Port 10/100/1000BaseT Managed Industrial Ethernet Switch
NTCD-CFG	NT24k Configuration Recovery Device
NTPS-24-1.3	DIN-Rail Power Supply 1.3 Amp @ 24 VDC
NT24K-NM-PMK	NT24k Non-Modular Panel Mount Kit



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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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