

NT24k-8TX-POE Industrial PoE+ Switch

N-Tron Networking Series



Managed Gigabit PoE+ Ethernet Switch

Red Lion's N-Tron® series NT24k-8TX-POE compact managed Gigabit Ethernet switch features eight 10/100/1000Base-T(X) ports with PoE+, providing a robust solution for transmitting power and data to equipment in harsh environments.

The versatile NT24k-8TX-POE compact managed switch features IEEE 802.3af/at Power over Ethernet Plus (PoE+) on eight all-Gigabit copper Ethernet ports with redundant 22-49 VDC power inputs. Designed to handle the most demanding environments, the NT24k-8TX-POE provides up to 30 Watts of power per port, high shock and vibration ratings and wide -40° to 80°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, manufacturing applications, transportation and water/wastewater.



APPLICATIONS

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

PRODUCT HIGHLIGHTS

- > IEEE 802.3af/at PoE+ Output
- > Smart Plug-and-Play Operation
- > 22 to 49 VDC Redundant Power Inputs
- > -40° to 80°C Wide Operating Temperature
- > Robust Remote Monitoring
- > N-Ring & N-Link Network Ring Technology

FEATURES & BENEFITS

- > Eight 10/100/1000Base-T(X) RJ45 Ports
 - Easily transition to Gigabit network requirements
- > Redundant 22 to 49 VDC Power Inputs
 - Boosts power to meet PoE+ output requirements
- > IEEE 802.3af/at PoE Output
 - Supports PoE+ output on all ports simultaneously
- > Extended Environmental Specifications
 - -40° to 80°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
 - 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



▶▶▶ NT24k-8TX-POE Specifications

SWITCH PROPERTIES

Operation: Managed
 Number of MAC Addresses: 16,000
 IEEE Compliant: 802.3, 802.3u, 802.3ab, 802.3x, 802.3af/at,
 802.1d/D/w, 802.1p, 802.1Q, 802.1x
 Latency (typical): 1.6 µs
 Switching Method: Store-and-Forward
 Supports 30 Watts per Port (25.5 Watts at the PD)
 Activity Status Indication: LED link
 Supports Full/Half duplex operation
 Maximum Throughput: Up to 16.0 Gb/s
 MDIX Auto Sensing Cable
 Auto Sensing Speed and Flow Control
 Communications: Full Wire Speed
 MTBF: >2 million hours

POWER INPUT

Input Voltage: 22-49 VDC
 Steady Input Current: 10.9 A @ 24 V
 Inrush: 68 A / .09 us @ 24 VDC
 BTU/HR: 122

POWER OVER ETHERNET

PoE Standard: IEEE 802.3af/at Gigabit PSE
 PoE Output Power: 54 VDC / 30 Watts Output (25.5 W at PD)
 PSE Type: Type 2

CONNECTORS

10/100/1000BaseT: Eight (8) RJ-45 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)

ENVIRONMENTAL

Operating Temperature: -40°C to 80°C
 Storage Temperature: -40°C to 80°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 @ 5-200 Hz, Triaxial (bulkhead mounted)

CERTIFICATION & COMPLIANCE

Product Safety: UL/cUL ANSI/ISA 12.12.01-2013, Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations Groups A, B, C and D, T4 and UL 508. Canadian Standards C22.2 No. 213-M1987 Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations and C22.2 No. 14-M1987
 Designed to Comply with: IEEE 1613 (Electric Utility Substations), NEMA TS1/TS2 (Traffic Control)
 Immunity: CE, EN 61000-6-2/4, IEC 61000-4-2/3/4/5/6/8/11
 Emissions: EN 55011, ICES-003, FCC/CE (CFR 47, Part 15, Subpart B, Class A)
 RoHS Compliant

MECHANICAL

Case Dimensions:
 Height: 5.88" (14.93 cm)
 Width: 4.28" (10.87 cm)
 Depth: 5.54" (14.07 cm)
 Weight: 3.13 lbs (1.42 kg)
 Mount: DIN Rail 35 mm

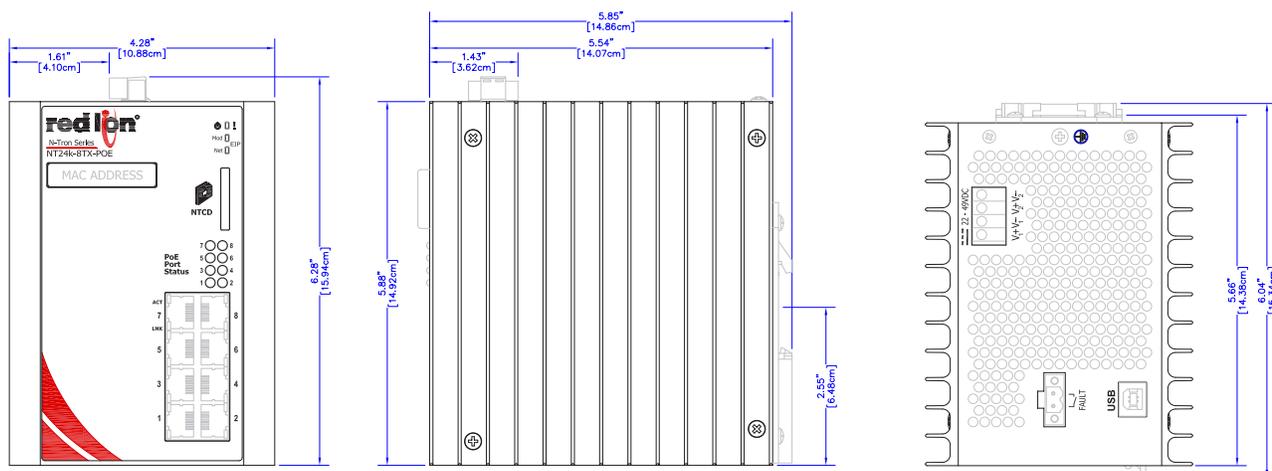
WARRANTY

3 years on design and manufacturing defects

ORDERING GUIDE

| PART NUMBER | DESCRIPTION |
|---------------|---|
| NT24K-8TX-POE | Eight Port 10/100/1000BaseT Managed PoE+ Industrial Ethernet Switch |
| NTCD-CFG | NT24k Configuration Recovery Device |
| NTPS-24-20 | DIN-Rail Power Supply 20 Amp @ 24 VDC |
| NTPS-48-10 | DIN-Rail Power Supply 10 Amp @ 48 VDC |
| NT24K-NM-PMK | NT24k Non-Modular Panel Mount Kit |

DIMENSIONS



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.