N-Tron[®] Networking Series

Industrial 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 NT24k-8TX-POE managed switch features 8 ports (eight Gigabit IEEE 802.3af/at Power over Ethernet Plus (PoE+) ports) and is housed in a compact, hardened metal DIN-rail enclosure 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 a wide -40° to 80°C operating temperature range.

APPLICATIONS

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

> 8 Copper Ports

FEATURES & BENEFITS

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

> Fully Managed Features Include:

- SSH/SSL/HTTPS
- 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
- DHCP Server, Option 82 relay, Option 61, IP fallback
- Port Security MAC address based
- 802.1p QoS, port QoS and DSCP
- Event Log/Syslog
- SNTP (Simple Network Time Protocol)
- IEEE 1588v2 (PTP) models available
- Multi-Member N-Ring[™] technology with ~30ms healing
- N-Link redundant ring technology
- N-View[™] monitoring technology
- EtherNet/IP[™] CIP[™] messaging
- 802.1AB-2005 LLDP (Link Layer Discovery Protocol)



RöHS







IEEE 1588v2 PTP OPTIONS

IEEE 1588v2 applications include

Coordinated motion control

Time-stamped data logging Time-stamped fault detection

PTP Models & Upgrade Kit Available

Boundary Clock

Transparent Clock

NT24k[®]-8TX-POE Industrial PoE+ Switch

> Extended Environmental Specifications • -40° to 80°C operating temperature range

supporting PoE+ on each port

> Redundant 22 to 49 VDC Power Inputs

> 2M hours MTBF

> IEEE 802.3af/at PoE Output

• UL/cUL: Class I, Div. 2 Groups A, B, C and D

• Eight 10/100/1000Base-T(X) copper ports,

Boosts power to meet PoE+ output requirements

• Supports PoE+ output on all copper ports simultaneously

- > Plug-and-Play Operation:
 - IGMP auto-configuration
 - MDIX auto-sensing cable
 - Simple network ring configuration
 - Backup and restore via recovery card or XML ۰







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 IEEE 1588v2 Software-Based Option Latency (Typical):1.6 µs Switching Method: Store-and-Forward Supports 30 Watts per Port (25.5 Watts at the PD) 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 Jumbo Frame Support

POWER INPUT

Input Voltage: 22-49 VDC Steady Input Current: 10.94 A @ 24 VDC Inrush: 68.0 A / .09 ms @ 24 VDC BTU/HR: 122

POWER OVER ETHERNET

PoE Standard: IEEE 802.3af/at Gigabit PSE PoE Output Power: 57 VDC / 30 Watts Output (25.5 W at PD) Power Pin Assignment: Pins 1/2 (-), Pins 3/6 (+) PSE Type: Type 2

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 80°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 @ 5-200 Hz, Triaxial (bulkhead mounted)

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: 4.28" (10.88 cm) Depth: 5.54" (14.07 cm) Weight: 3.13 lbs (1.42 kg) Mount: DIN Rail 35 mm

WARRANTY

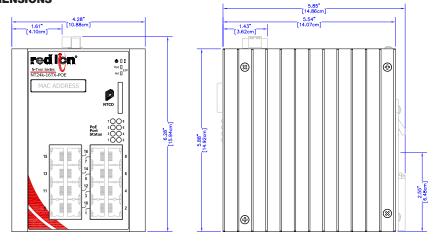
3 Years on Design and Manufacturing Defects

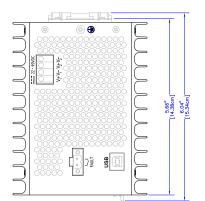
ORDERING GUIDE

PART NUMBER	DESCRIPTION
NT24K-8TX-POE	Eight Port 10/100/1000BaseT Managed PoE+ Industrial Ethernet Switch
NT24K-8TX-POE-PT	Eight Port 10/100/1000BaseT Managed PoE+ Industrial Ethernet Switch, PTP Enabled
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
NT24K-KIT-PTP	NT24k Upgrade License to Enable IEEE 1588/PTP on Non-PT NT24k Switches

NT24k-8TX-POE Specifications

DIMENSIONS





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



Americas sales@redlion.net

Asia-Pacific asia@redlion.net

Europe Middle East Africa europe@redlion.net +1 (717) 767-6511 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 award-winning 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. For more information, please visit www.redlion.net. Red Lion is a Spectris company.

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