NT24k®-16TX-POE Industrial PoE+ Switch red

N-Tron® Networking Series



▶▶▶ Industrial Managed Gigabit PoE+ Switch

Red Lion's N-Tron® series NT24k®-16TX-POE industrial managed Gigabit Ethernet switch features 16 10/100/1000Base-T(X) ports and IEEE802.3af/at (PoE+), providing a robust solution for transmitting power and data to equipment in harsh environments.

Housed in a compact, hardened DIN-rail enclosure, the NT24k-16TX-POE managed switch features 16 Gigabit ports, redundant 22-49 VDC power inputs, high shock and vibration tolerance and a wide -40° to 80°C operating temperature range. Rugged, reliable and easy to use, the NT24k-16TX-POE switch offers a 240 Watt PoE budget that can be allocated to any of its 16 ports, up to 30 Watts per port.



APPLICATIONS

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

PRODUCT HIGHLIGHTS

- > IEEE 802.3af/at output up to 30 Watts per port/ 240 Watts per switch
- > Smart Plug-and-Play Operation
- > 22 to 49 VDC Redundant Power Inputs
- > Wide -40° to 80°C Operating Temperature
- > Robust Remote Monitoring
- > N-Ring[™] and N-Link[™] Network Ring Technology

FEATURES & BENEFITS

- > 16 Copper Ports
 - 10/100/1000Base-T(X) copper ports
- > Redundant 22 to 49 VDC Power Inputs
 - Boosts power to meet PoE+ output requirements
- > IEEE 802.3af/at PoE Output
 - 240 Watt PoE budget configurable across all 16 ports, up to 30 Watts per port
- > Extended Environmental Specifications
 - Wide -40° to 80°C operating temperature range
 - Ultra-reliable > 2 million 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 Networking Functionality
 - 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

















▶▶▶ NT24k-16TX-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 PoE Budget: Configurable up to 240 Watts Up to 30 Watts per port (25.5 at the PD)

LED Status Indicators Configurable Alarm Contact Onboard Temperature Sensor Supports Full/Half Duplex Operation Maximum Throughput: Up to 32 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: 11.24 A @ 24 VDC Inrush: 67 A / .096 ms @ 24 VDC

BTU/HR: 122

POWER OVER ETHERNET

PoE Standard: IEEE 802.3af/at Gigabit PSE PoE Budget: Configurable up to 240 Watts Up to 30 Watts per port (25.5 at the PD)

PoE Output Power: 57 VDC

Power Pin Assignment: Pins 1/2 (-), Pins 3/6 (+)

PSE Type: Type 2

CONNECTORS

10/100/1000BaseT: Sixteen (16) 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

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)

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: 3.25 lbs (1.48 kg) Mount: DIN Rail 35 mm

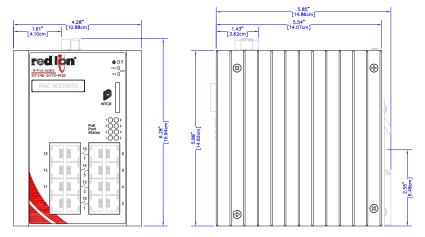
3 Years on Design and Manufacturing Defects

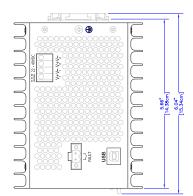
ORDERING GUIDE

MODEL NUMBER	DESCRIPTION
NT24K-16TX-POE	16 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

▶▶▶ NT24k-16TX-POE Specifications

DIMENSIONS





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



www.redlion.net

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 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.

ADLD0454 101316 © 2016 Red Lion Controls, Inc. All rights reserved. Red Lion, the Red Lion logo, N-Tron and Sixnet are registered trademarks of Red Lion Controls, Inc. All other company and product names are trademarks of their respective owners.