NT24k[™]-10GX2-POE Industrial PoE+ Switch **red**

N-Tron® Networking Series



▶▶▶ Industrial Managed Gigabit PoE+ Ethernet Switch

Red Lion's N-Tron series NT24k-10GX2-POE compact managed Gigabit Ethernet switch features eight 10/100/1000Base-T(X) ports with PoE+ and two 1000Base-FX fiber ports with SC connectors, providing a robust solution for transmitting power and data to equipment in harsh environments.

The NT24k-10GX2-POE managed switch features 10 ports (eight Gigabit IEEE 802.3af/at Power over Ethernet Plus (PoE+) ports and two 1000Base-FX fiber 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-10GX2-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

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

- > 10 Copper and Fiber Ports
 - Eight 10/100/1000Base-T(X) copper ports, supporting PoE+ on each port
 - Two 1000Base-FX ports with SC connectors
- > 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 copper 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















▶▶▶ NT24k-10GX2-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)

LED Status Indicators Configurable Alarm Contact Onboard Temperature Sensor Supports Full/Half Duplex Operation Maximum Throughput: Up to 20.0 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: 11.37 A @ 24 VDC

Inrush: 60 A / .2 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 1000Base-FX: Two (2) SC duplex fiber ports

Configuration Port: One (1) USB Type B

NETWORK MEDIA

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

1000Base-SX Multimode: 50-62.5/125 μm 1000Base-LX Singlemode: 7-10/125 μm

RECOMMENDED WIRING CLEARANCE

Front: 4" (10.16 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 @ 5-20 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

ABS Type Approval for Shipboard Applications

Designed to Comply with: IEEE 1613 (Electric Utility Substations),

NEMA TS1/TS2 (Traffic Control)

Immunity: CE, EN 61000-6-2/4, EN 61000-3-2/3,

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" (14.92 cm) Width: 4.28" (10.88 cm) Depth: 5.54" (14.07 cm) Weight: 3.23 lbs (1.46 kg) Mount: DIN Rail 35 mm

WARRANTY

3 Years on Design and Manufacturing Defects

▶▶▶ NT24k-10GX2-POE Specifications

FIBER TRANSCEIVER CHARACTERISTICS

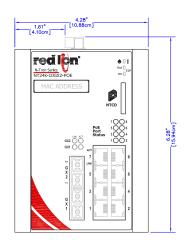
Fiber Mode	MM	SM	SM	SM
Fiber Length	550m @ 50/125µm 300m @ 62.5/125µm	10 km	40 km	80 km
TX Power Min	-9.5 dBm	-9.5 dBm	-5 dBm	0 dBm
RX Sensitivity Max	-17 dBm	-20 dBm	-23 dBm	-24 dBm
Wavelength	850 nm	1310 nm	1310 nm	1550 nm
Assumed Fiber Loss	3.5 to 3.75 dB/km	0.40 dB/km	0.40 dB/km	0.25 dB/km
Laser Type	VCSEL	FP	DFB	DFB

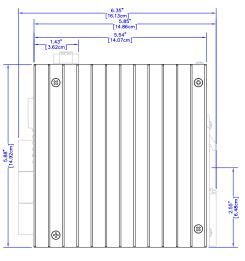
ORDERING GUIDE

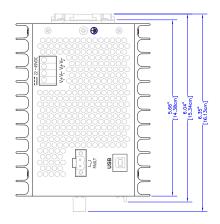
PART NUMBER	DESCRIPTION
NT24K-10GX2-SC-POE	10-Port Gigabit Managed POE+ Industrial Ethernet Switch (8 10/100/1000BaseT, 2 1000BaseSX, multimode 550m ports)
NT24K-10GXE2-SC-ZZ-POE	10-Port Gigabit Managed POE+ Industrial Ethernet Switch (8 10/100/1000BaseT, 2 1000BaseLX, singlemode ports)
NTCD-CFG	NT24k Configuration Recovery Device
NTPS-24-20	DIN-Rail Power Supply, 20 Amp @ 24VDC
NTPS-48-10	DIN-Rail Power Supply, 10 Amp @ 48VDC
NT24K-NM-PMK	NT24k Non-Modular Panel Mount Kit

Where ZZ=10, 40, or 80

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 realtime 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.

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