NT24k-8TX Industrial Ethernet Switch

N-Tron Networking Series

▶▶▶ Managed Gigabit Industrial Ethernet Switch

Red Lion's N-Tron® series NT24k-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 eight all-Gigabit copper Ethernet ports 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

- All-Gigabit Network Performance
- 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

- Eight 10/100/1000Base-T(X) RJ45 Ports
  - Easily transition to Gigabit network requirements
- 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
  - SNTP (Simple Network Time Protocol)
  - N-Ring™ technology with ~30ms healing
  - N-Link™ redundant ring technology
  - N-View™ monitoring technology
  - EtherNet/IP™ CIP™ messaging

industrial networking

LISTED 65SN

RoHS compliant

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

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 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)

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, 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" (14.93 cm)
Width: 2.22" (5.64 cm)
Depth: 5.54" (14.07 cm)
Weight: 1.68 lbs (0.76 kg)
Mount: DIN Rail 35 mm

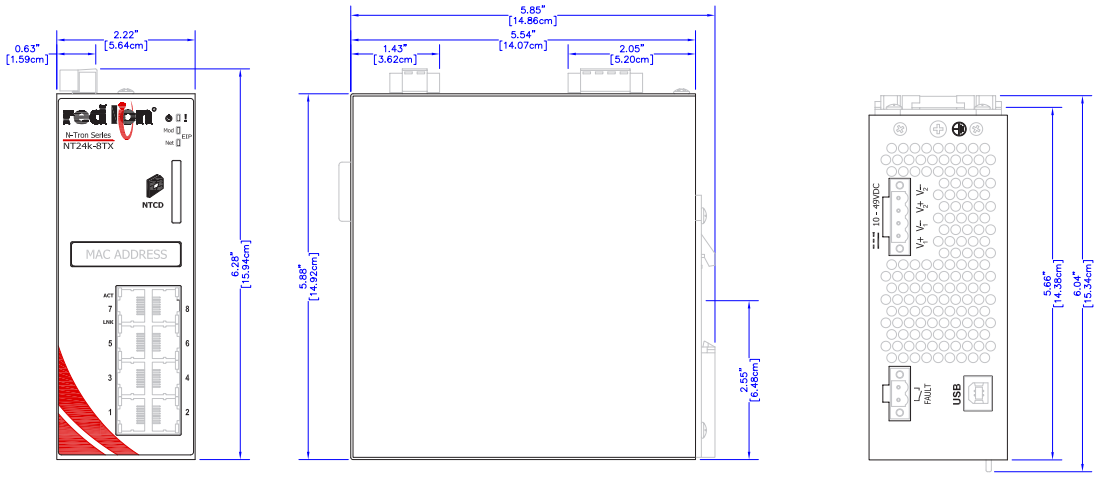
WARRANTY

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

DIMENSIONS



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