

NT24k-16TX Industrial Ethernet Switch

N-Tron Networking Series



Managed Gigabit Industrial Ethernet Switch

Red Lion's N-Tron® series NT24k-16TX compact managed Gigabit Ethernet switch features 16 10/100/1000Base-T(X) ports, providing a reliable and secure communication network to equipment in harsh environments.

The versatile NT24k-16TX managed switch features 16 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-16TX 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

- > 16 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)
 - Multi-Member N-Ring™ technology with ~30ms healing
 - N-Link™ redundant ring technology
 - N-View™ monitoring technology
 - EtherNet/IP™ CIP™ messaging

industrial
networking



▶▶▶ NT24k-16TX 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 μ s
 Switching Method: Store-and-Forward
 Activity Status Indication: LED link
 Supports Full/Half duplex operation
 Maximum Throughput: Up to 32.0 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: 710 mA @ 24 V
 Inrush: 22 A / .33 μ s @ 24 VDC
 BTU/HR: 58.16

CONNECTORS

10/100/1000BaseT: 16 RJ-45 ports

NETWORK MEDIA

10BaseT: \geq Cat3 cable
 100BaseTX: \geq Cat5 cable
 1000BaseT: \geq 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 @ 5-200 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, 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: 3.09" (7.87 cm)
 Depth: 5.54" (14.07 cm)
 Weight: 1.97 lbs (0.89 kg)
 Mount: DIN Rail 35 mm

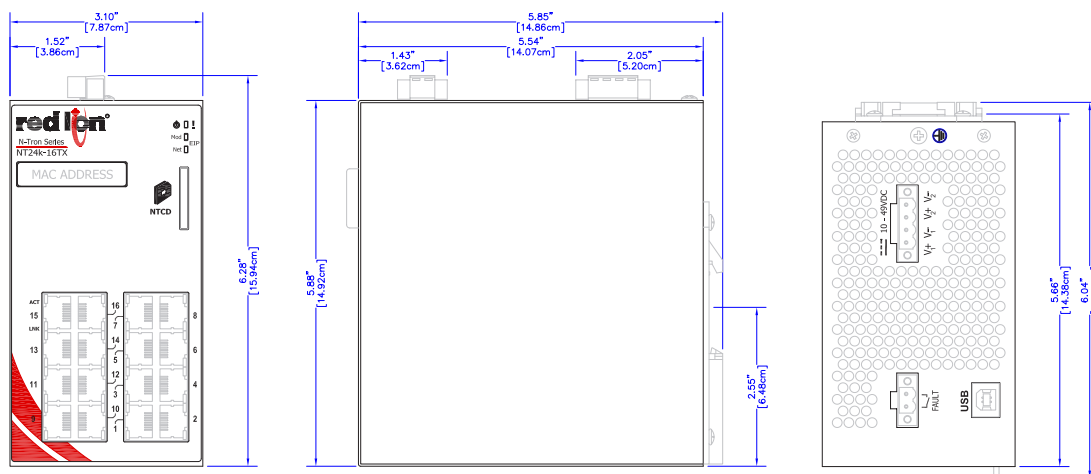
WARRANTY

3 years on design and manufacturing defects

ORDERING GUIDE

PART NUMBER	DESCRIPTION
NT24K-16TX	16 Port 10/100/1000BaseT Managed Industrial Ethernet Switch
NTCD-CFG	NT24k Configuration Recovery Device
NTPS-24-3	DIN-Rail Power Supply 3.0 Amp @ 24VDC
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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