NT24k®-8TX Industrial Ethernet Switch

N-Tron® Networking Series

red lion®

▶▶▶ Industrial Managed Gigabit 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 8 ports (eight Gigabit copper ports) and is 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

> Copper Ports
> 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

> 8 Copper Ports
  • Eight 10/100/1000Base-T(X) copper ports
> 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
  • 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

industrial networking

FC   c UL us LISTED 65SN   CE   ABS TYPE APPROVED PRODUCT   PC   RoHS compliant   EtherNet/IP

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
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

POWER INPUT

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

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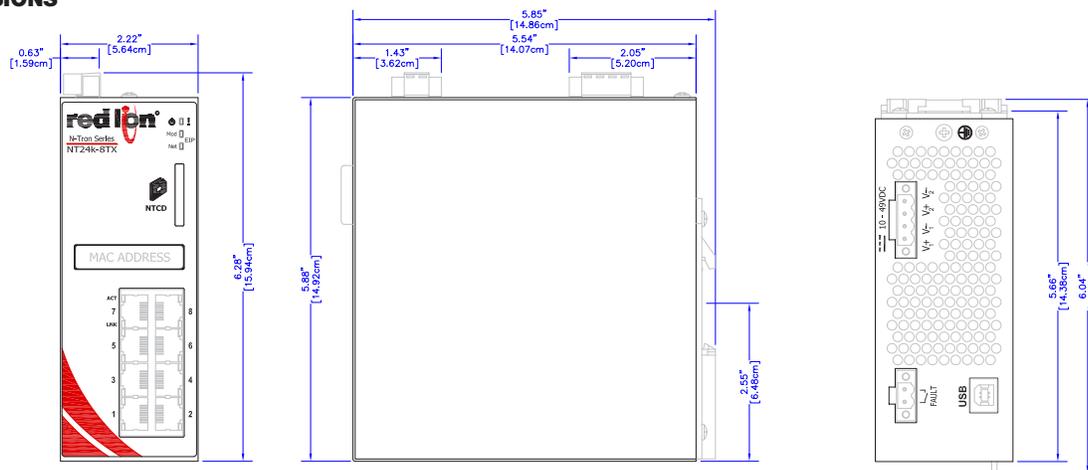100BaseTX: ≥ Cat5 cable
1000BaseT: ≥ Cat5e cable

RECOMMENDED WIRING CLEARANCE

Front: 2" (5.08 cm)
Top: 4" (10.16 cm)

ENVIRONMENTAL

Operating Temperature: -40°C to 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:
    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: 2.22" (5.64 cm)
    Depth: 5.54" (14.07 cm)
Weight: 1.68 lbs (0.76kg)
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.