Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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►►► Industrial Managed Gigabit PoE+ Ethernet Switch

Red Lion's N-Tron® series NT24k®-10FX2-POE compact managed Gigabit Ethernet switch features eight 10/100/1000Base-T(X) ports with PoE+ and two 100Base-FX fiber ports with SC or ST connectors, providing a robust solution for transmitting power and data to equipment in harsh environments.

The NT24k-10FX2-POE managed switch features 10 ports (eight Gigabit IEEE 802.3af/at Power over Ethernet Plus (PoE+) ports and two 100Base-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-10FX2-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 100Base-FX ports with SC/ST 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
- 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

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 16.4 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: 60.8 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
100BaseFX: Two (2) ST or SC duplex fiber ports
Configuration Port: One (1) USB Type B

NETWORK MEDIA

10BaseT: ≥ Cat3 cable
100BaseTX: ≥ Cat5 cable
1000BaseT: ≥ Cat5e cable
100BaseFX Multimode: 50-62.5/125 µm
100BaseFX 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 @ 5-200 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
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: 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

FIBER TRANSCEIVER CHARACTERISTICS

Fiber Mode	MM	SM	SM	SM
Fiber Length*	2 km	15 km	40 km	80 km
TX Power Min	-19 dBm	-15 dBm	-5 dBm	-5 dBm
RX Sensitivity Max	-31 dBm	-31 dBm	-34 dBm	-34 dBm
Wavelength	1310 nm	1310 nm	1310 nm	1550 nm

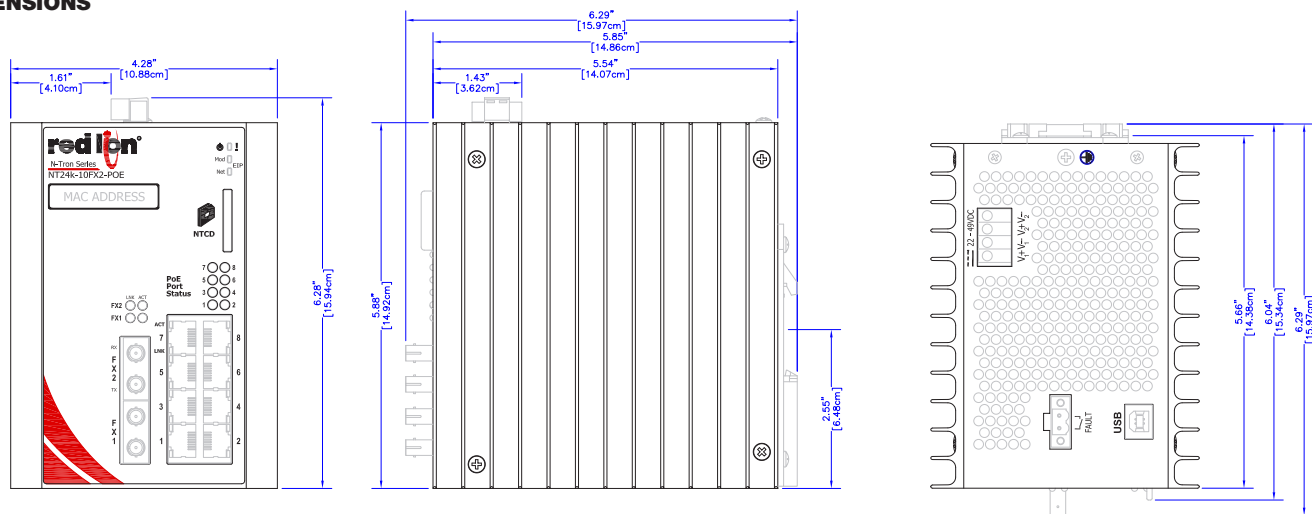* Fiber Length distances represent typical performance.
  Link budgets should be evaluated based on specific application conditions.

ORDERING GUIDE

PART NUMBER	DESCRIPTION
NT24K-10FX2-XX-POE	10-Port Gigabit Managed POE+ Industrial Ethernet Switch (8 10/100/1000BaseT, 2 100BaseFX, multimode 2km ports)
NT24K-10FXE2-XX-YY-POE	10-Port Gigabit Managed POE+ Industrial Ethernet Switch (8 10/100/1000BaseT, 2 100BaseFX, 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 XX=ST or SC connector
Where YY=15, 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 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.