

NT24k™-DR16 Modular Industrial Switch

N-Tron Ethernet Series



Managed Gigabit Industrial Ethernet Switch

The N-Tron® series NT24k-DR16 is a modular managed switch designed for factory automation, utilities, security surveillance, SCADA and other industrial applications.

The Red Lion® N-Tron series NT24k-DR16 managed industrial Ethernet switch features connectivity for up to 16 Gigabit ports and offers a wide range of connectivity options—including 100Base, Gigabit, fiber optic and copper options—in a rugged DIN-rail mountable enclosure. Designed to handle the most demanding environments, the NT24k-DR16 delivers wire-speed throughput and includes expanded shock and vibration tolerances, extreme operating temperature range and two slots to accommodate mix-and-match port modules. N-Ring™ technology restores network communication within ~30ms of fault detection. Robust remote monitoring capabilities make management easy.



APPLICATIONS

- > Factory Automation
- > Utilities
- > SCADA
- > Security Surveillance
- > Transportation
- > Alternative Energy

PRODUCT HIGHLIGHTS

- > All Gigabit Modular Design
- > Up to 16 Port Connections
- > High Environmental Specifications
- > N-Ring Advanced Ring Technology
- > Robust Remote Monitoring
- > Smart Plug-and-Play Operation

FEATURES & BENEFITS

- > Supports up to two of the following port modules:
 - 8-port 10/100/1000BaseT(X) module
 - 8-port 100Base fiber module
 - 8-port 1000Base fiber module
 - 8-port Gigabit SFP module
 - 8-port dual mode SFP module (100Base or 1000Base SFP transceivers)
- > -40° C to 75° C operating temperature
- > Power input selections:
 - Low Voltage: 18-49 VDC
 - High Voltage: 90-264 VAC or 90-300 VDC
- > Onboard temperature sensor
- > ESD and surge protection diodes on all copper ports
- > Auto-sensing 10/100/1000BaseT(X), duplex and MDIX
- > USB configuration port
- > Configurable alarm contact
- > Optional backup/restore configuration device
- > 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

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Managed Gigabit Industrial Ethernet Switch Specifications

SWITCH PROPERTIES

Number of MAC Addresses: 16K
 Aging Time: Programmable
 Latency (typical): 1.6 μ s
 Switching Method: Store & Forward
 MTBF: >1 million hours

POWER INPUT OPTIONS

Select one:
 Low Voltage: 18-49 VDC
 High Voltage: 90-264 VAC or 90-300 VDC
 Input Current (max): 1.52A @ 24VDC
 Input Current (max): 580mA @120 VAC/300mA @ 124VDC
 BTU/hr: 125 @ 24VDC
 BTU/hr: 268 @ 120VAC/127 @ 124VDC

CONNECTORS

10/100/1000BaseT(X): Up to 16 RJ45 copper ports
 100BaseFX: Up to 16 SC or ST fiber ports
 1000BaseGX: Up to 16 SC fiber ports
 100BaseSX/LX SFP: Up to 16 LC fiber ports
 1000BaseGX SFP: Up to 16 LC fiber ports

RELIABILITY

MTBF: >1 million hours

NETWORK MEDIA

10BaseT: \geq Cat3 cable
 100BaseTX: \geq Cat5 cable
 1000BaseT: \geq Cat5 cable
 100BaseFX, 1000BaseSX Multimode: 50-62.5/125 μ m
 100BaseFXE, 1000BaseLX Singlemode: 7-10/125 μ m

RECOMMENDED WIRING CLEARANCE

Front and Top: 4" (10.2 cm)

CERTIFICATION & COMPLIANCE

Product Safety:
 Class I, Division 2, Groups A, B, C and D hazardous locations UL508
 ANSI/ISA 12.12.01-2012
 CAN/CSA-C22.2 No. 14
 CAN/CSA-C22.2 No. 213-M1987
 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 (radiated and conducted)
 Immunity: EN 61000-3-2; EN61000-3-3; 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 (RFEM); IEC 61000-4-8 (PFMF); IEC 61000-4-11 (VDI)
 Other: ABS Type Approval for Shipboard Applications;
 EMC Directive 2004/108/EC; GOST-R

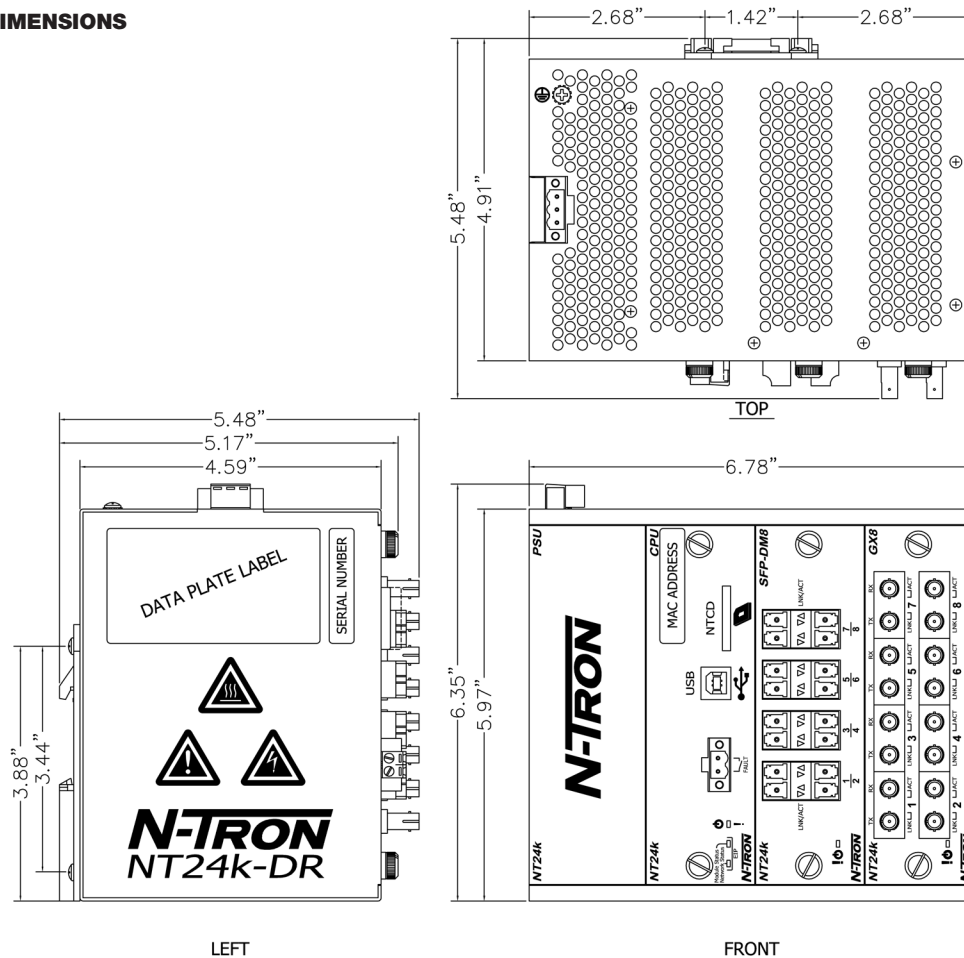
ENVIRONMENTAL

Operating Temperature: -40° C to 75° C
 Operating Humidity: 5% to 95% (Non Condensing)
 Operating Altitude: 0 to 10,000 ft.
 Shock: 50g @ 10ms
 Vibration/Seismic: 30g, 10-200 Hz, triaxial

MECHANICAL

Case Dimensions
 Height: 5.97" (15.20 cm)
 Width: 6.78" (17.22 cm)
 Depth: 4.59" (11.65 cm)
 Weight (maximum): 6.4 lbs (2.9 kg)
 Mount: DIN rail

DIMENSIONS



Managed Gigabit Industrial Ethernet Switch Specifications

NT24K-FX8 MODULE - 100 MB FIBER TRANSCEIVER CHARACTERISTICS

Fiber Mode	MM	SM	SM	SM
Fiber Length	2km	15km	40km	80km
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

NT24K-GX8 MODULE - GIGABIT FIBER TRANSCEIVER CHARACTERISTICS

Fiber Mode	MM	SM	SM	SM
Fiber Length	550m @ 50/125µm 300m @ 62.5/125µm	10km	40km	80km
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

NT24K-SFP-DM8 MODULE - SFP 100BASE FIBER TRANSCEIVER CHARACTERISTICS

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

NT24K-SFP-DM8 OR NT24K-SFP8 MODULES- SFP GIGABIT FIBER TRANSCEIVER CHARACTERISTICS

Fiber Mode	MM	SM	SM	SM
Fiber Length	550m @ 50/125µm 275m @ 62.5/125µm	10km	40km	80km
TX Power Min	-9.5 dBm	-9.5 dBm	-2 dBm	0 dBm
RX Sensitivity Max	-17 dBm	-20 dBm	-22 dBm	-24 dBm
Wavelength	850 nm	1310 nm	1310 nm	1550 nm
Assumed Fiber Loss	3.5 to 3.75 dB/km	0.45 dB/km	0.35 dB/km	0.25 dB/km
Laser Type	VCSEL	FP	DFB	DFB

ORDERING GUIDE

PART NUMBER	DESCRIPTION
NT24K-DR16-DC	Managed Industrial Ethernet Switch; modular DIN rail design with 2 expansion slots; redundant 18-49VDC power input
NT24K-DR16-AC	Managed Industrial Ethernet Switch; modular DIN rail design with 2 expansion slots; 90-264VAC / 90-300VDC power inputs
NT24K-FP	Filler panel (required to fill vacant module slots)
NTCD-CFG	Configuration recovery device
NTPC-AC-US	AC power cord
NTPS-24-3	DIN rail power supply 3.0 Amp@24 VDC
NT24K-DR-PMK	NT24k DR panel mount kit

PORT MODULES & TRANSCEIVERS

NT24K-TX8	8-port 10/100/1000BaseT module
NT24K-FX8-XX	Slide-in module with 8 100BaseFX multimode fiber ports, 2km (SC or ST)
NT24K-FXE8-XX-YY	Slide-in module with 8 100BaseFX singlemode fiber ports (SC or ST)
NT24K-GX8-SC	Slide-in module with 8 1000BaseFX multimode fiber ports, 550m (SC)
NT24K-GXE8-SC-ZZ	Slide-in module with 8 1000BaseFX singlemode fiber ports (SC)
NT24K-SFP8	Slide-in module with 8 SFP expansion slots; supports 1000Base SFP transceivers*
NT24K-SFP-DM8	Slide-in module with 8 dual mode SFP expansion slots; supports 100Base or 1000Base SFP transceivers*
NTSFP-FX	100BaseFX multimode fiber SFP pluggable mini-GBIC transceiver (LC style connector, 2km)**
NTSFP-FXE-YY	100BaseFX singlemode fiber SFP pluggable mini-GBIC transceiver (LC style connector)**
NTSFP-TX	1000BaseT copper SFP pluggable mini-GBIC transceiver
NTSFP-SX	1000BaseSX multimode fiber SFP pluggable mini-GBIC transceiver
NTSFP-LX-ZZ	1000BaseLX singlemode fiber SFP pluggable mini-GBIC transceiver

Where: XX = ST or SC connector (ST not available on some GX modules); YY = 15, 40, or 80 for FX singlemode, blank for multimode; ZZ = 10, 40, or 80 for GX singlemode; *SFP transceivers sold separately; **For use with SFP DM8 module only



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NT24k™-8TX Industrial Ethernet Switch

N-Tron® Networking Series



▶▶▶ 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
 - 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

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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 μ s
 Switching Method: Store-and-Forward
 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: 10-49 VDC
 Steady Input Current: 490 mA @ 24 VDC
 Inrush: 22 A / .33 ms @ 24 VDC
 BTU/HR: 40.14

CONNECTORS

10/100/1000Base-T: Eight (8) RJ-45 ports
 ESD and surge protection diodes on all copper ports
 Configuration Port: One (1) USB Type B

NETWORK MEDIA

10BaseT: \geq Cat3 cable
 100BaseTX: \geq Cat5 cable
 1000BaseT: \geq 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: 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
 Rail: EN 50155, EN 50121 and EN 61373
 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: 2.22" (5.64 cm)
 Depth: 5.54" (14.07 cm)
 Weight: 1.95 lbs (0.89 kg)
 Mount: DIN Rail 35 mm

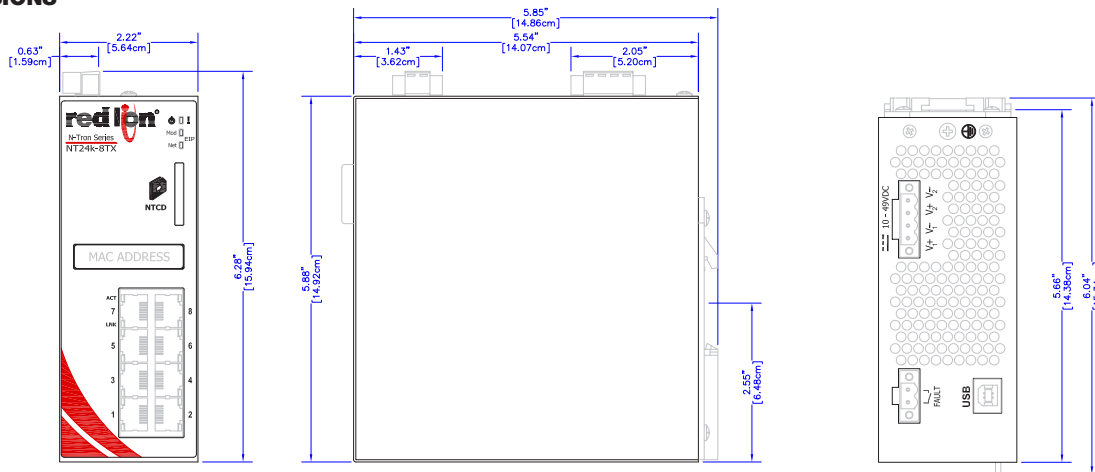
WARRANTY

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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NT24k™-16TX Industrial Ethernet Switch

N-Tron® Networking Series



▶▶▶ Industrial Managed Gigabit Ethernet Switch

Red Lion's N-Tron series NT24k-16TX compact managed Gigabit Ethernet switch features sixteen 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 ports (sixteen 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-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

- > 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

- > 16 Copper Ports
 - Sixteen 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
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 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
 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: 10-49 VDC
 Steady Input Current: 710 mA @ 24 VDC
 Inrush: 22 A / .33 ms @ 24 VDC
 BTU/HR: 58.14

CONNECTORS

10/100/1000Base-T: Sixteen (16) RJ-45 ports
 ESD and surge protection diodes on all copper ports
 Configuration Port: One (1) USB Type B

NETWORK MEDIA

10BaseT: \geq Cat3 cable
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 1000BaseT: \geq Cat5e cable

RECOMMENDED WIRING CLEARANCE

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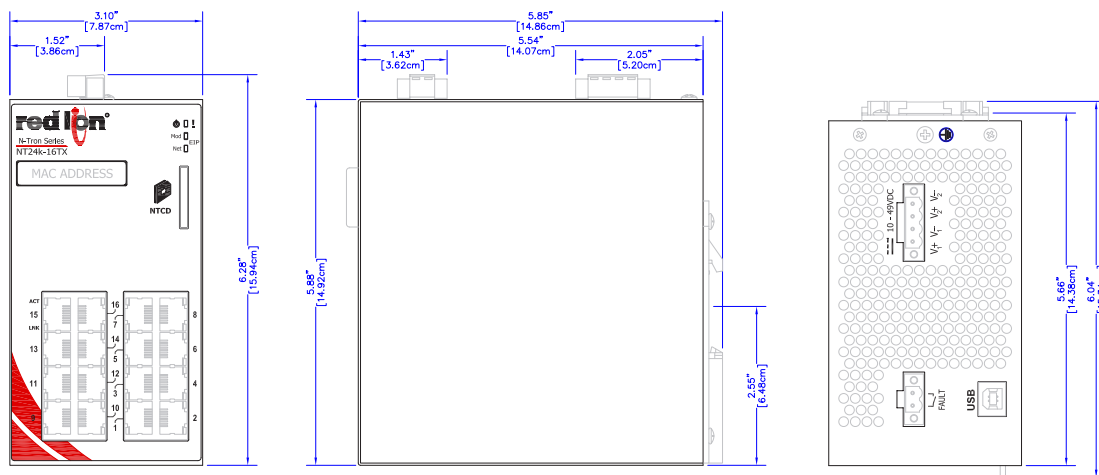
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