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# 1008TX-POE+ Unmanaged Switch

N-Tron Networking Series



## ▶▶▶ Industrial Unmanaged Gigabit PoE+

Red Lion's N-Tron® series 1008TX-POE+ unmanaged Gigabit Power over Ethernet Plus (PoE+) switch enables plug-and-play operation for up to eight 10/100/1000Base-T(X) devices with PoE+ support on 4 ports.

Featuring 8 Gigabit RJ45 ports and a hardened DIN-rail enclosure with redundant power inputs, the 1008TX-POE+ unmanaged Ethernet switch provides up to 30 watts of IEEE 802.3af/at power per PoE port alongside plug-and-play installation, jumbo frame support and LED link/activity and PoE status indication for high-bandwidth applications. Ideal for deployment in security and surveillance, oil and gas, transportation, utilities and factory automation applications, the 1008TX-POE+ switch enables organizations to address the most demanding industrial communication requirements while increasing throughput and minimizing downtime.



### APPLICATIONS

- > Security & Surveillance
- > Oil & Gas
- > Factory Automation
- > Transportation
- > Utilities
- > Alternative Energy

### PRODUCT HIGHLIGHTS

- > Plug-and-Play Operation
- > IEEE 802.3af/at PoE+
- > Compact Size with Hardened Metal Enclosure
- > Wide -40° to 80°C Operating Temperature
- > Redundant 22 to 49 VDC Power Inputs

### FEATURES & BENEFITS

- > 8 Gigabit Ports
  - 10/100/1000Base-T(X) (4 ports PoE+) copper ports
  - PoE ports provide Gigabit data and up to 30 watts of power out
- > Redundant 22 to 49 VDC Power Inputs
  - Keeps network running in the event of a power supply failure
  - Boosts power to meet PoE+ output requirements
- > Robust Industrial Design
  - Wide -40° to 80°C operating temperature range
  - UL/cUL: Class I, Division 2 Groups A, B, C, D, T4
  - American Bureau of Shipping (ABS) type approval
- IEEE 1613 for electric utility substations
- Ultra-reliable > 2 million hours MTBF
- > Unmanaged Switch Operation
  - Plug-and-play operation
  - Jumbo frame support
  - Auto sensing 10/100/1000Base-T(X)
  - Auto negotiation full/half duplex
  - MDIX auto cable sensing
  - Full IEEE 802.3af/at compliance
  - Up to 16 Gb/s maximum throughput
  - Full wire speed communications
  - Store-and-forward switching technology

industrial  
networking





# ▶▶▶ 1008TX-POE+ Unmanaged Switch Specifications

## SWITCH PROPERTIES

Operation: Unmanaged  
Number of MAC Addresses: 8000  
IEEE Compliance: 802.3, 802.3u, 802.3ab and 802.3af/at  
Latency (Typical): 3.2  $\mu$ s + frame time  
LED Link/Activity Status Indicators  
Power Fault Status LEDs  
LED PoE Status Indicators  
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 Range: Dual 22-49 VDC power inputs  
Steady Input Current (Full PoE Load): 5.64 A @ 24 VDC  
Steady Input Current (No PoE Load): 530mA @ 24 VDC  
Inrush: 70.5 A / 60 $\mu$ s @ 24 VDC  
BTU/HR: 60

## POWER OVER ETHERNET

PoE Standard: IEEE 802.3af/at Gigabit endspan PSE  
PoE Output Power: 57 VDC / 30 W (25.5 W at PD) per port  
Power Pin Assignment: Pins 1/2 (+), Pins 3/6 (-)  
PSE Type: Type 2

## CONNECTORS

10/100/1000Base-T: Eight (8) RJ-45 ports (PoE+ on ports 5 - 8)

## NETWORK MEDIA

10BaseT:  $\geq$  Cat3 cable  
100BaseTX:  $\geq$  Cat5 cable  
1000Base-T:  $\geq$  Cat5e cable  
802.3af (802.3at Type 1) PoE:  $\geq$  Cat3 cable  
802.3at Type 2 PoE+:  $\geq$  Cat5 cable

## RECOMMENDED WIRING CLEARANCE

Front: 2" (5.08 cm)  
Top: 1" (2.54 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/Seismic: 50 g, 5-200 Hz, triaxial (bulkhead mounted)

## CERTIFICATION & COMPLIANCE

Product Safety: ANSI/ISA 12.12.01-2015 Class I and II, Div. 2 and Class III, Div. 1 and 2, Groups A, B, C and D Hazardous Locations, T4 UL508 Industrial Control Equipment  
CAN/CSA-C22.2 No. 213-15, Hazardous Locations  
CAN/CSA-C22.2 No. 14-13, Industrial Control Equipment  
Emissions: FCC Title 47, Part 15, Radio Frequency Devices, Subpart B, ANSI C63.4-2009; Industry Canada ICES-003, EN 55032, EN 61000-3-2, EN61000-3-3  
Immunity: EN 55024, EN 61000-6-2, EN 61000-4-2 (ESD); EN 61000-4-3 (RFAM); EN 61000-4-4 (EFT); EN 61000-4-5 (SURGE); EN 61000-4-6 (RFCM); EN 61000-4-8 (PFMF); EN 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: 5.9" (15 cm)  
Width: 2.0" (5.1 cm)  
Depth: 5.9" (15 cm)  
Weight: 1.52 lbs (0.69 kg)  
Ingress Protection: IP20  
Mount: DIN rail (35 mm)

## WARRANTY

3 Years on Design and Manufacturing Defects

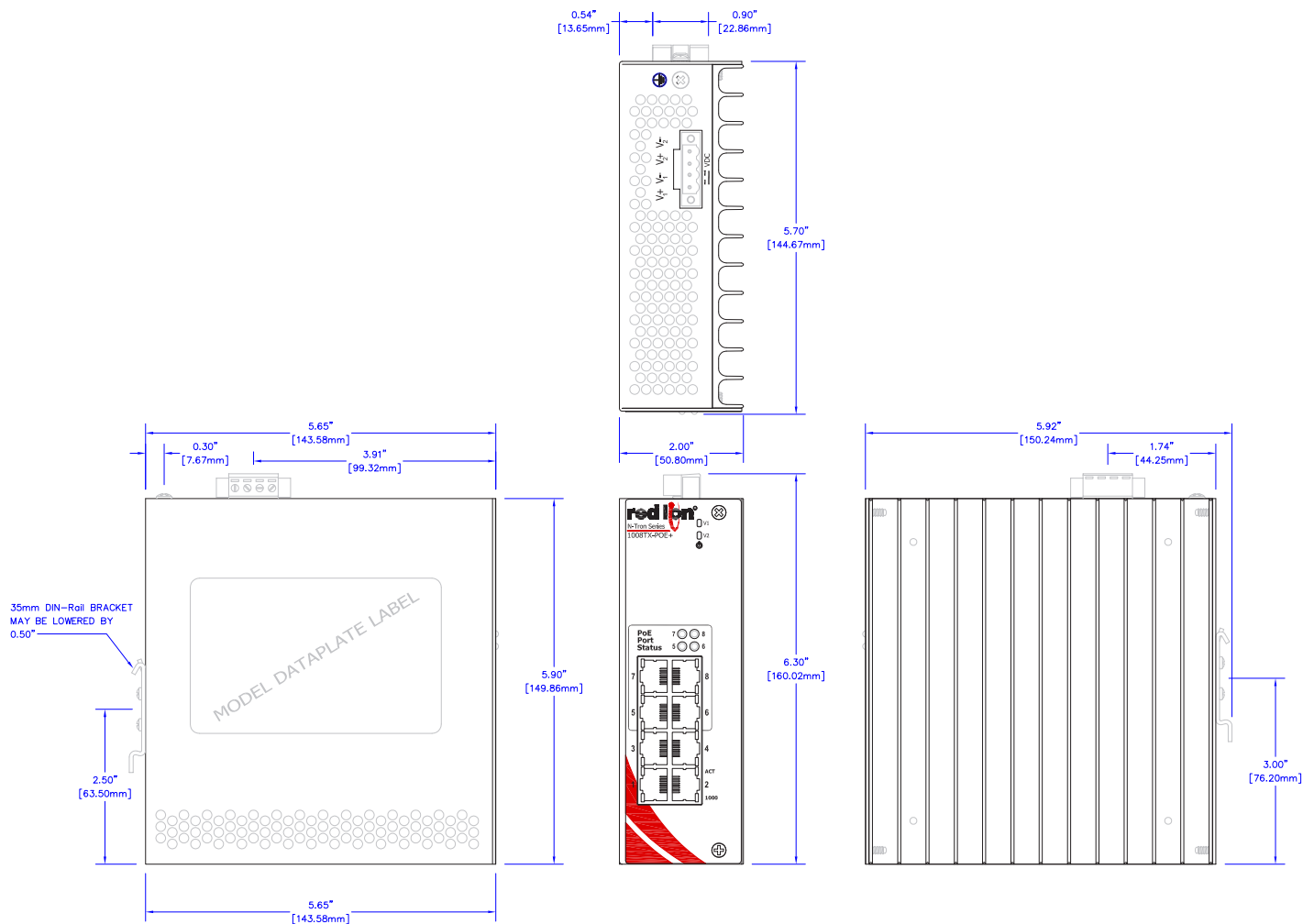
## ORDERING GUIDE

MODEL NUMBER	DESCRIPTION
1008TX-POE+	8-Port Industrial Unmanaged Gigabit PoE+ Switch (4 10/100/1000Base-T Ports, 4 10/100/1000Base-T with PoE+ Ports)
NTPS-24-10	DIN-Rail Power Supply 10 Amp @ 24 VDC
1K26-PMK	Panel Mount Kit, 1000 Series

Specifications are subject to change. Visit [www.redlion.net](http://www.redlion.net) for more information.

# ▶▶▶ 1008TX-POE+ Unmanaged Switch Specifications

## DIMENSIONS



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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](http://www.redlion.net).

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