

# 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

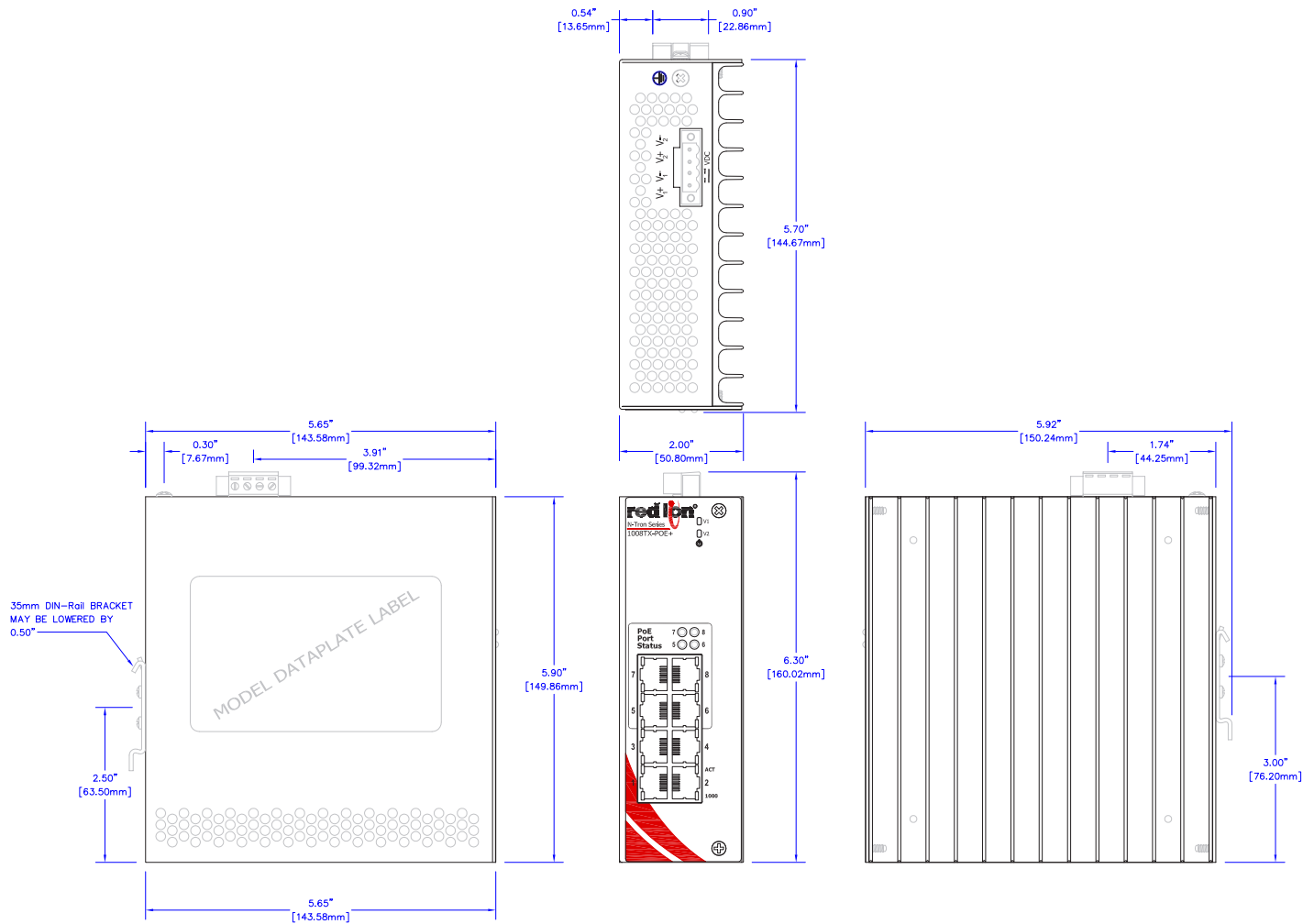
## ORDERING GUIDE

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.

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## DIMENSIONS



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