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# 1000-POE4+ Gigabit Midspan Injector

N-Tron Networking Series



## ▶▶▶ Industrial Unmanaged Gigabit PoE+

Red Lion's N-Tron® series 1000-POE4+ Gigabit PoE+ midspan injector simplifies network deployments by providing a robust solution for transmitting power and data to industrial network assets.

With 4 10/100/1000BaseT(X) RJ45 ports (data in) and 4 10/100/1000BaseT(X) RJ45 PoE+ ports (data and power out) that support 30 watts per port, the 1000-POE4+ Gigabit PoE+ injector combines Gigabit data communications and power over a single Ethernet network cable. Ideal for deployment in security and surveillance, oil and gas, transportation, utilities and factory automation applications, the 1000-POE4+ injector provides auto-sensing plug-and-play performance for four PoE+ devices such as video cameras, IP phones and wireless access points.



### APPLICATIONS

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

### PRODUCT HIGHLIGHTS

- > Plug-and-Play Operation
- > IEEE 802.3af/at PoE+
- > Compact Size with Hardened Metal Enclosure
- > Wide -40° to 85°C Operating Temperature
- > Redundant 22 to 49 VDC Power Inputs

### FEATURES & BENEFITS

- > 4 Gigabit PoE+ Ports
  - 10/100/1000Base-T(X) PoE+ copper ports
  - Provides Gigabit connectivity and 30 watts of power
- > 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 85°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
  - Full IEEE 802.3af/at compliance
  - Up to 8 Gb/s maximum throughput
  - Full wire speed communications

industrial  
networking



# ▶▶▶ 1000-POE4+ Gigabit POE+ Midspan Injector Specifications

## SWITCH PROPERTIES

Operation: Unmanaged  
IEEE Compliance: 802.3af/at  
LED Status Indicators  
Maximum Throughput: Up to 8 Gb/s  
Communications: Full Wire Speed  
MTBF: >2 million hours

## POWER INPUT

Input Voltage Range: Dual 22-49 VDC power inputs  
Steady Input Current (Full Load): 5.25 A @ 24 VDC  
Steady Input Current (No Load): 280mA @ 24 VDC  
Inrush: 59.9 A / 60us @ 24 VDC  
BTU/HR: 50

## POWER OVER ETHERNET

PoE Standard: IEEE 802.3af/at Gigabit mid-span 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  
Data In: Four (4) 10/100/1000Base-T ports  
Data/PoE Out: Four (4) 10/100/1000Base-T ports

## NETWORK MEDIA

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

## RECOMMENDED WIRING CLEARANCE

Front: 2" (5.08 cm)  
Top: 1" (2.54 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/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 (RFEM); 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: 1.45 lbs (0.66 kg)  
Ingress Protection: IP20  
Mount: DIN rail (35 mm)

## WARRANTY

3 Years on Design and Manufacturing Defects

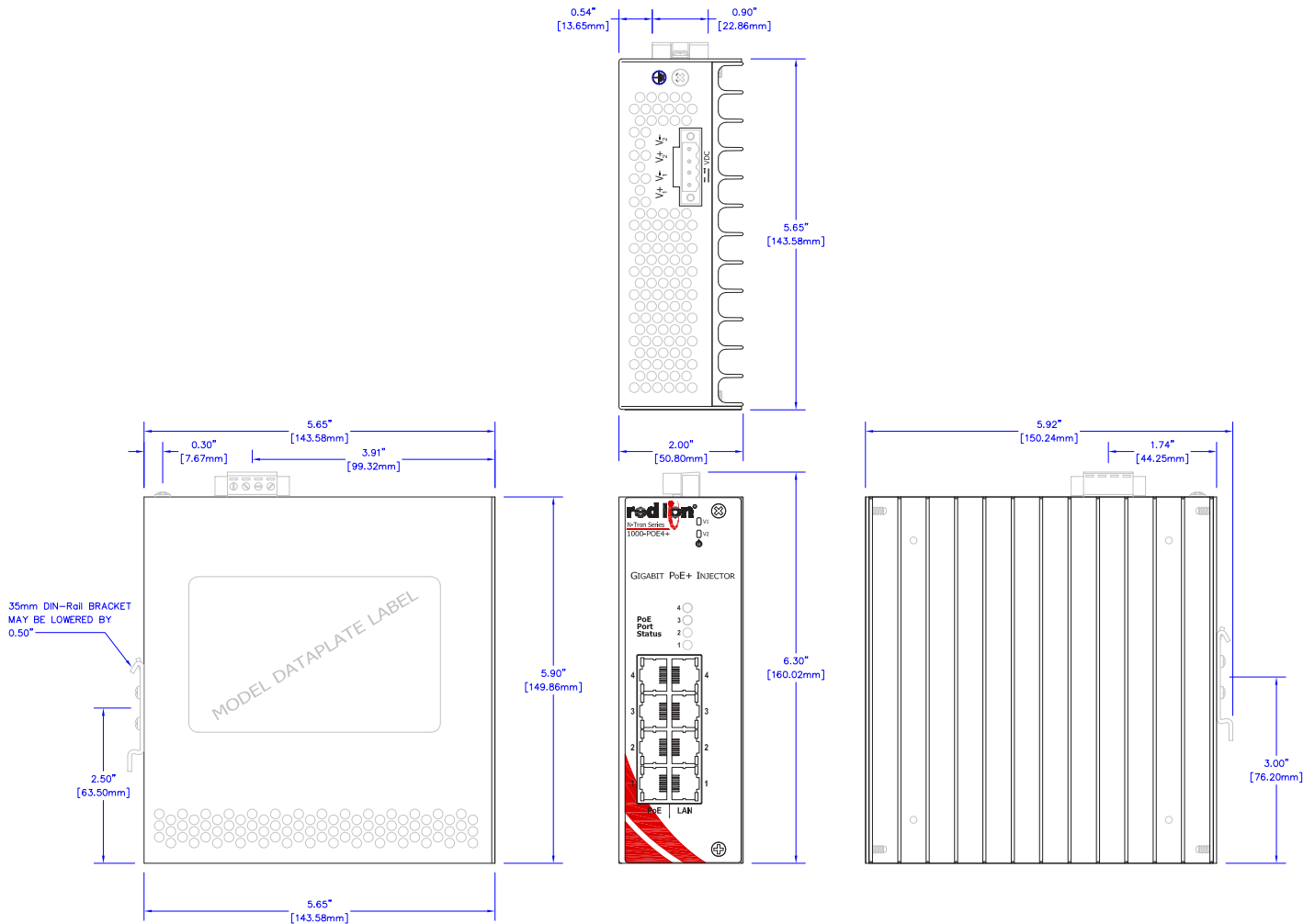
## ORDERING GUIDE

MODEL NUMBER	DESCRIPTION
1000-POE4+	4-Port Industrial Gigabit PoE+ Mid-Span Injector (4 10/100/1000Base-T Ports Data In, 4 10/100/1000Base-T Data/PoE+ Out)
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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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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