

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
- > Unmanaged Switch Operation
 - American Bureau of Shipping (ABS) type approval
 - IEEE 1613 for electric utility substations
 - Ultra-reliable > 2 million hours MTBF
 - 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 for more information.

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DIMENSIONS

