Datenblatt

N-TRON PoE+ 4-Port Midspan-Injektor

1000-POE4+

Bezeichnung	1000-POE4+
Modell	N-TRON PoE+ Midspan-Injektor
Typ	PoE Midspan-Injektor
Gesamtanzahl Ports	8
10/100/1000 Kupfer	4
Anzahl PoE+ Ports (IEEE 802.3at)	4
Gehäusematerial	Metall
Betriebstemperatur	-40°C ... +85°C
Lagertemperatur	-40°C ... +85°C
Gewicht	660g
Abmessungen	50,8 x 149,86 x 143,58 mm
Besonderheiten	MTBF: 2 Mio. Stunden Schock: 200G/10ms Vibration: 50G/Triaxial 5-200Hz ESD: +/- 16kV
Versorgungsspannung	22-49 VDC
Übertragungsrate	10/100/1000 Mbit/s
Montage	DIN-Hutschiene

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Schutzgrad	IP20
Zertifizierung	Product Safety: USA UL508 Industrial Control Equipment, 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 ANSI/ISA-12.12.01-2013, Class I and II,Division 2 and Class III, Divisions 1, Canada C22.2 No. 14; C22.2 No. 213-M1987 Class I, Division 2 Hazardous Locations, 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, 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, EN50121, EN61373, ABS Type Approval for Shipboard Applications, Designed to Comply with: IEEE 1613 (Electric Utility Substations), NEMA TS1/TS2 (Traffic Control), EMC Directive 2014/30/EU, LV Directive 2014/35/EU GOST-R, RoHS

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N-TRON PoE+ 4-Port Midspan-Injektor

1000-POE4+

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 10/100/100BaseT(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

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▶▶▶ 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

CONNETCTORS
- 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 (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: 1.45 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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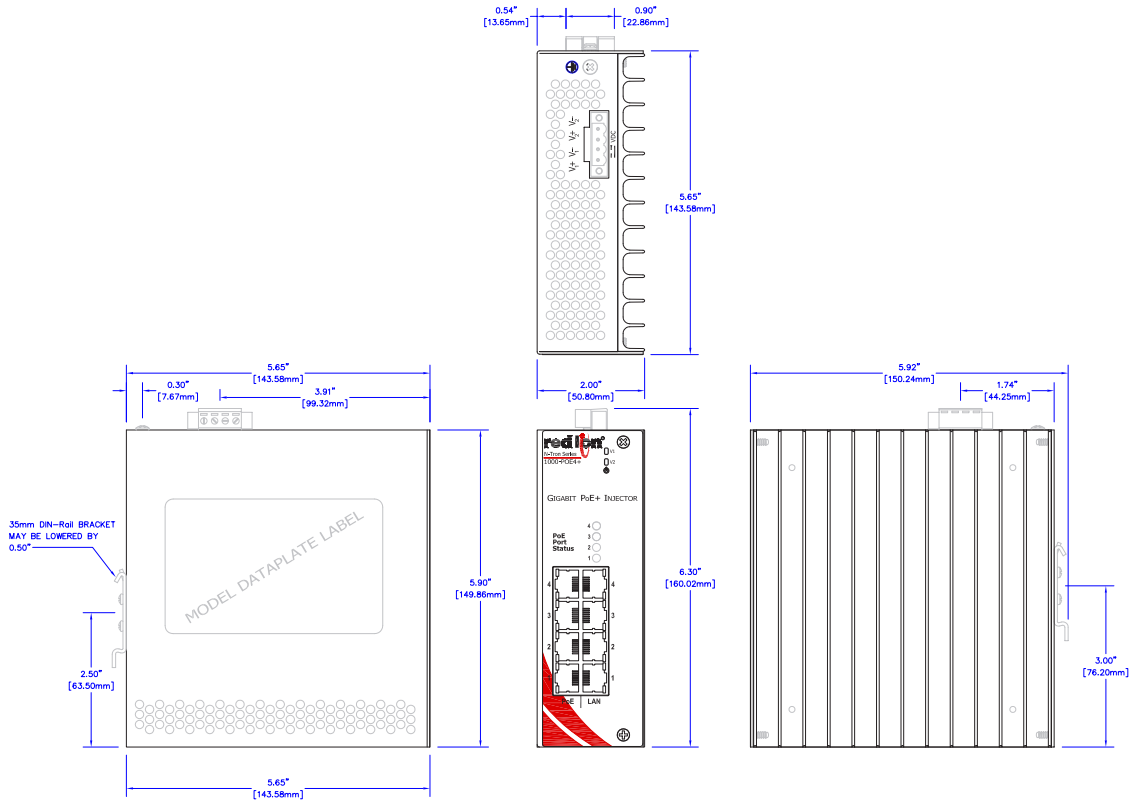
▶▶▶ 1000-POE4+ Gigabit POE+ Midspan Injector Specifications

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.