1008TX-POE+ Unmanaged Switch

N-Tron Networking Series

RL RED LION®

►►► 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

CE   FC   c(UL)us LISTED 65SN   ABS TYPE APPROVED PRODUCT   PG   RoHS compliant

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 µs + 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 / 60us @ 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: ≥ 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 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 for more information.

DIMENSIONS

0.54"
[13.65mm]

0.90"
[22.86mm]

5.70"
[144.67mm]

V1-
V2-
V2+
V1+
VDC

5.65"
[143.58mm]

0.30"
[7.67mm]

3.91"
[99.32mm]

2.00"
[50.80mm]

35mm DIN–Rail BRACKET
MAY BE LOWERED BY
0.50"

MODEL DATAPLATE LABEL

2.50"
[63.50mm]

5.90"
[149.86mm]

5.65"
[143.58mm]

red lion®
N-Tron Series
1008TX-POE+
V1
V2

PoE
Port
Status
7 8
5 6

7 8
5 6
3 4
1 2
ACT
1000

6.30"
[160.02mm]

5.92"
[150.24mm]

1.74"
[44.25mm]

3.00"
[76.20mm]

RED LION®