

# 100-POE4 Industrial PoE

N-Tron Networking Series



## ▶▶▶ Industrial Mid-Span PoE Injector

Red Lion's N-Tron 100-POE4 industrial mid-span PoE injector is designed to transmit data over an Ethernet network.

Ideal for powering PoE capable devices running on AC power feed is not possible or cost effective. PoE allows an end user to power a PoE camera, wireless access point, or any other PoE capable device without the need for running separate wires for power. This also allows the ability for a centralized battery backup for all these devices.



### APPLICATIONS

- > Security Surveillance
- > Factory Automation
- > SCADA
- > Transportation
- > Utilities
- > Alternative Energy

### PRODUCT HIGHLIGHTS

- > Compact, Industrial Design
- > Up to 8 port connections
- > High Environmental Specifications
- > Auto-Detection of Connected PoE Devices
- > Increased Networking Performance
- > Plug-and-Play Operation

### FEATURES & BENEFITS

- > Compact, Space Saving Package
- > Full IEEE 802.3af Compliance
- > Supports the following ports:
  - 4-port 10/100BaseTX RJ45 Ports (Data In)
  - 4-port 10/100BaseTX RJ45 PoE Ports (Data & Power Out)
- > Unmanaged Operation
- > Extended Environmental Specifications
  - -40°C to 85° Operating Temperature
  - >2M Hours MTBF
- > Automatic Detection of Connected PoE Devices
- > Up to 0.8 Gb/s Maximum Throughput
- > Full Wire Speed Communications
- > Supports 15.4 Watts per port (13 Watts at the PD)
- > Redundant Power Inputs (46-49 VDC)
- > Power Fault Status LED
- > LED PoE Status Indication
- > Hardened Metal DIN-Rail Enclosure

industrial  
networking



RoHS  
compliant



# ▶▶▶ 100-POE4 Specifications

## SWITCH PROPERTIES

Operation: Unmanaged  
 IEEE Compliant: 802.3af  
 Up to 0.8 Gb/s Maximum Throughput  
 Full Wire Speed Communications  
 Supports 15.4 Watts per port (13 Watts at the PD)  
 Power Fault Status LED  
 LED PoE Status Indication  
 MTBF: >2m hours

## POWER INPUT

Input Voltage: 46-49 VDC  
 Steady Input Current Under Full Load: 1.6 A@48V  
 Steady Input Current Under No Load: 30mA@48V  
 BTU/hr: 262.1@48VDC and under full load  
 Inrush: 27Amp/1.5ms@48V

## CONNECTORS

10/100BaseTX: Eight (8) RJ45 copper ports  
 Four 10/100BaseTX RJ-45 Ports (Data In)  
 Four 10/100BaseTX RJ-45 PoE Ports (Data & Power Out)

## NETWORK MEDIA

10BaseT: >Cat3 cable  
 100BaseTX: >Cat5 cable

## RECOMMENDED WIRING CLEARANCE

Front: 2" (5.08 cm)  
 Top: 1" (2.54 cm)

## CERTIFICATION & COMPLIANCE

Product Safety: UL/cUL: Class I, Division 2, Groups A, B, C and D;  
 T4 UL 508, ICE and ANSI/ISA-12.12.01-2007  
 Emissions: EN 55011, ICES-003, FCC/CE (CFR 47, Part 15,  
 Subpart B, Class A)  
 Immunity: EN 61000-6-2/4, IEC 61000-4-2/3/4/5/6  
 Other: ABS type approval for shipboard applications  
 DNV-GL Type Approval Certification  
 RoHS Compliant  
 IEEE 1613 for Electric Utility Substations  
 NEMA TS1/TS2 for Traffic Control  
 American Bureau of Shipping (ABS) Type Approval  
 EN50155 for Railway applications

## 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.

## MECHANICAL

Case Dimensions  
 Height: 3.5" (8.9 cm)  
 Width: 1.5" (3.8 cm)  
 Depth: 3.6 (9.0 cm)  
 Weight: 0.70 lbs. (0.32 kg)  
 Mount: DIN Rail 35mm

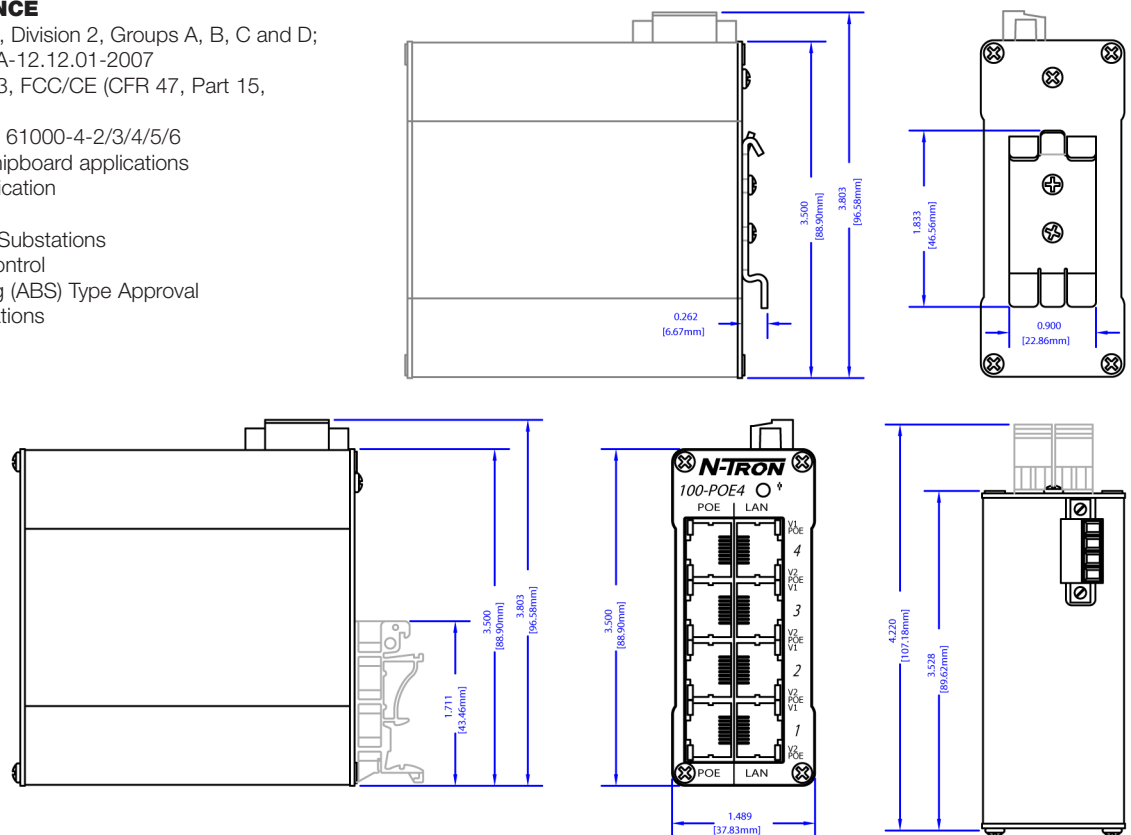
All specifications are subject to change. Consult the company website for more information.

## ORDERING GUIDE

PART NUMBER	DESCRIPTION
100-POE4	Four Pair 10/100BaseTX Ports; 4 RJ45 in and Four RJ45 with POE out
100-MDR-2	Metal Din Rail Option*
NTPS-48-2	DIN-Rail Power Supply 48V@2 Amp

\*MDR option must be specified with switch order - not field upgradable

## DIMENSIONS



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