

# 116TX Unmanaged Ethernet Switch

*N-Tron Networking Series*



## ▶▶▶ Unmanaged Ethernet Switch

### PRODUCT FEATURES

- Sixteen 10/100BaseTX RJ-45 ports
- Slim, space-saving design
- -40°C to 85°C operating temperature
- IEEE 802.3 compliance
- ESD and surge protection diodes on all ports
- Store-and-forward technology
- Supports full/half duplex operation
- Full wire speed communications
- Up to 3.2 Gb/s maximum throughput
- Auto negotiation, auto sensing speed, duplex, and flow control
- MDIX auto sensing cable
- Redundant power inputs (10-49 VDC)
- LED link/activity status indication
- Rugged DIN-rail enclosure
- >2M Hours MTBF

industrial  
networking

## SPECIFICATIONS

### Case Dimensions

Height: 5.8" (14.6 cm)  
Width: 2.0" (5.1 cm)  
Depth: 4.1" (10.2 cm)  
Weight: 1.1 lb. (.48 kg)  
DIN-Rail: 35mm

### Electrical

Redundant Input Voltage: 10-49 VDC (regulated)  
Input Current (max): 300 mA@24 VDC  
BTU/hr: 24.6@24 VDC  
N-TRON Power Supply: NTPS-24-1.3 (1.3A@24V)

### 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 and Vibration (Bulkhead Mounted)

Shock: 200g@10ms  
Vibration/Seismic: 50g, 5-200hz triaxial

### Reliability

MTBF: >2 million hours

### Network Media

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

### Connectors

10/100BaseTX: Sixteen (16) RJ-45 copper ports

### Recommended Wiring Clearance

Top: 1" (2.6 cm)  
Front: 2" (5.1 cm)

### Designed to comply with

- IEEE 1613 for electric utility substations
- NEMA TS1/ TS2 for traffic control

### Regulatory Certifications

- Safety: Class I, Division 2, Groups A, B, C and D, T4
- EMI: ANSI C63.4; FCC CFR Title 47, Part 15, Subpart B - Class A; ICES-003 – Class A
- EMC: EN61000-6-4 – Class A (Emissions), EN 55024 (Immunity), EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (RF), EN61000-4-8 (PFMF), EN61000-4-11 (VDI)
- Other: ABS Type Approval for Shipboard Applications; GOST-R certified; RoHS compliant

Further information regarding this product's regulatory conformity can be found on the N-Tron website at [www.n-tron.com/regulatory](http://www.n-tron.com/regulatory)



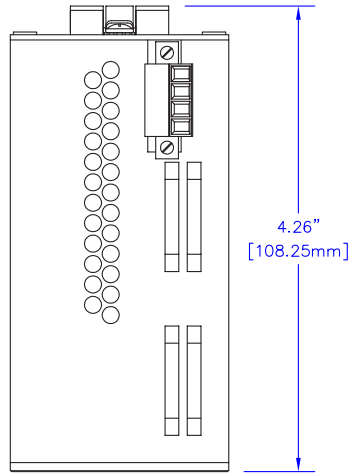
## ORDERING INFORMATION

### PART NUMBER

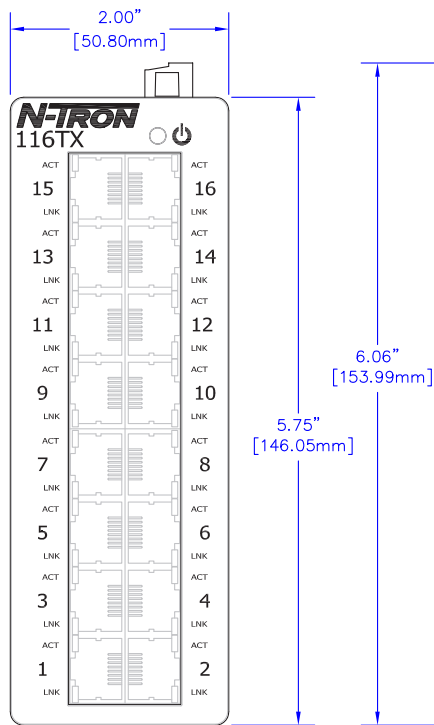
### DESCRIPTION

116TX ..... Sixteen-port (16 10/100BaseTX Ports) Industrial Ethernet switch

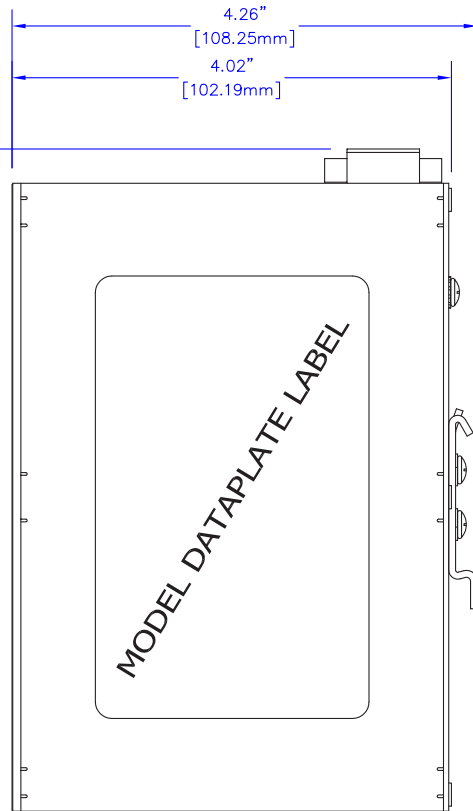
NTPS-24-1.3..... N-TRON DIN-rail power supply (1.3 amp@24VDC)



TOP



FRONT



RIGHT SIDE



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