308FX2 Industrial Ethernet Switch

N-Tron® Networking Series

▶▶▶ Unmanaged Industrial Ethernet Switch

The N-Tron® 308FX2, an unmanaged Industrial Ethernet switch, is designed for use in industrial data acquisition, control, and Ethernet I/O applications.

The rugged DIN-RAIL enclosure protects the switch from harsh environmental conditions, enabling flawless performance in extreme settings.

APPLICATIONS

- Shipboard Applications
- Electric Utility Substations
- Traffic Control

PRODUCT HIGHLIGHTS

- Compact Industrial Design
- Full IEEE 802.3 and 1613 Compliance
- NEMA TS1/TS2 Compliance
- Extended Environmental Specifications
- Store-and-Forward Technology
- N-View™ monitoring option available

FEATURES & BENEFITS

- Six 10/100 BaseTX RJ-45 Ports
- Two 100BaseFX Ports, ST or SC (shown)
- Supports Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Auto Senses Speed and Flow Control
- MDIX Auto Cable Sensing (RJ-45)
- Up to 2.6 Gb/s Maximum Throughput
- Rugged Industrial DIN-Rail Enclosure
- Redundant Power Inputs (10-30 VDC)
- Bi-Color Status LEDs For Link, Speed, Activity & Duplex
- Port Control
- N-View™ Monitoring Option

  N-View capable models provide tools to remotely monitor network traffic and error conditions. Five switch level variables and forty-one traffic indicators per port are accessible using the N-View PC application provided with the switch. An OPC server, capable of delivering the data to OPC capable applications, is also provided.

industrial networking

RoHS compliant

308FX2 Industrial Ethernet Switch Specifications

SWITCH PROPERTIES
Number of MAC Addresses: 4,000
Latency (typical): 2.1 µs
Backplane Speed: 2.6 Gb/s
Switching Method: Store & Forward

CASE DIMENSIONS
Height: 5.9” (15cm)
Width: 2.3” (5.8cm)
Depth: 3.8” (9.7cm)
Weight: 1.7 lbs (0.8kg)
Din-Rail: 35mm

ELECTRICAL
Redundant Input Voltage: 10-30 VDC
Input Current: 380 mA@24V
Inrush: 8.5Amp/0.2ms@24V
BTU/hr: 31.1@24V

ENVIRONMENTAL
Operating and Storage Temp: -40ºC to 85ºC
Operating Humidity: 10% to 95% (Non Condensing)
Operating Altitude: 0 to 10,000 ft.

SHOCK AND VIBRATION (BULKHEAD MOUNTING)
Shock: 200g@10ms
Vibration/Seismic: 50g, 5-200Hz, Triaxial

RELIABILITY
MTBF: >2 Million Hours

NETWORK MEDIA
10BaseT: ≥Cat3 Cable
100BaseTX: ≥Cat5 Cable
100BaseFX:
Multimode 50-62.5/125µm
Singlemode 7-10/125µm

CONNECTORS
10/100BaseTX: Six (6) RJ-45 Copper Ports
100BaseFX: Two (2) SC or ST Duplex Ports

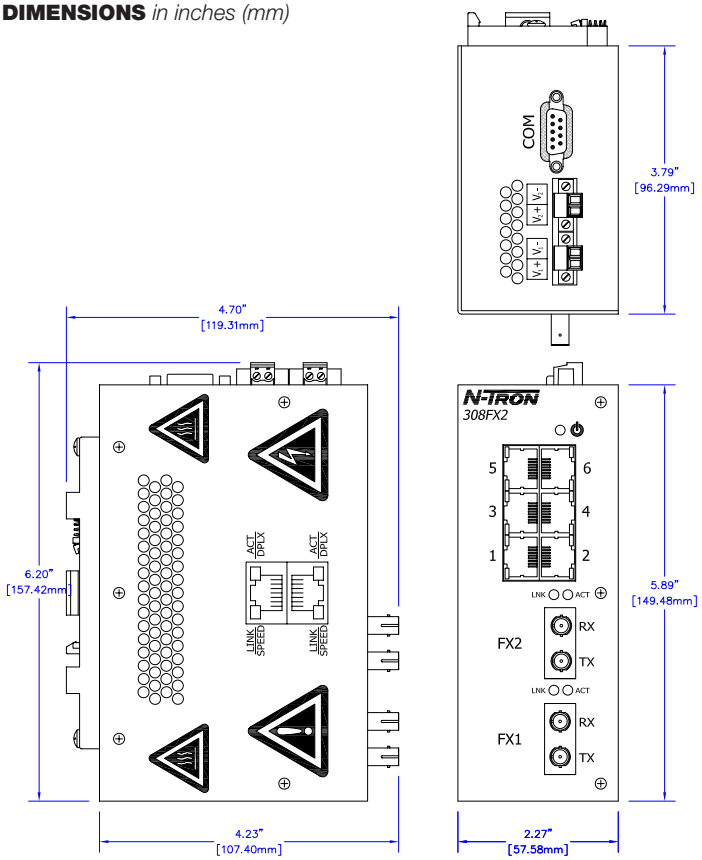
SERIAL CONFIGURATION PORT
Com Parameters: 9600,n,8,1

RECOMMENDED WIRING CLEARANCE
Front: 4” (10.16 cm)
Top: 1” (2.54 cm)

REGULATORY APPROVALS
FCC (CFR 47, Part 15, Subpart B, Class A and ANSI C63.4)
ICES-003
CE (IEC 60068: 2-1/2/6/30 and IEC 60533-7)
US - UL Listed UL508, ANSI/ISA 12.12.01-2007 for use in Class I and II, Division 2 and Class III Division 1 and 2 Hazardous Locations Groups A,B,C,D,T4A
Canada - C22.2 No. 142-M1987 and C22.2 No. 213-1987 for use in Class I, Division 2 Hazardous Locations
EN 60079-0/15 ATEX
GOST-R Certified, RoHS Compliant

Designed to comply with:
IACS UR E10 (ABS Type-Approval)
IEEE 1613 for Electric Utility Substations
NEMA TS1/TS2 for Traffic Control

DIMENSIONS *in inches (mm)*



ORDERING GUIDE

PART NUMBER	DESCRIPTION
308FX2-N-XX	8-port (6 10/100BaseTX, 2 100BaseFX Fiber Uplink) Industrial Ethernet Switch with N-View technology, DIN-Rail
308FXE2-N-XX-YY	8-port (6 10/100BaseTX, 2 100BaseFX Fiber Uplink) Industrial Ethernet Switch with N-View technology, singlemode, DIN-Rail
308FX2-XX	8-port (6 10/100BaseTX, 2 100BaseFX Fiber Uplink) Industrial Ethernet Switch, DIN-Rail
308FXE2-XX-YY	8-port (6 10/100BaseTX, 2 100BaseFX Fiber Uplink) Industrial Ethernet Switch, singlemode, DIN-Rail
URMK	19” Universal Rack Mount Kit
900-PM	Panel Mount Kit
NTPS-24.1.3	N-TRON Power Supply (1.3 amp@24 VDC)

Where: N = N-View™ Option
E = Singlemode
XX = ST for ST style fiber connector, SC for SC style fiber connector
YY = Segment length:
15 for 15km max. fiber segment length
40 for 40km max. fiber segment length
80 for 80km max. fiber segment length

FIBER TRANSCEIVER CHARACTERISTICS

FIBER LENGTH	2km	15km	40km	80km
TX POWER MIN	-19dBm	-15dBm	-5dBm	-5dBm
RX SENSITIVITY MAX	-31dBm	-31dBm	-34dBm	-34dBm
WAVELENGTH	1310nm	1310nm	1310nm	1550nm

RED LION®