

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



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: -40°C to 85°C
 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

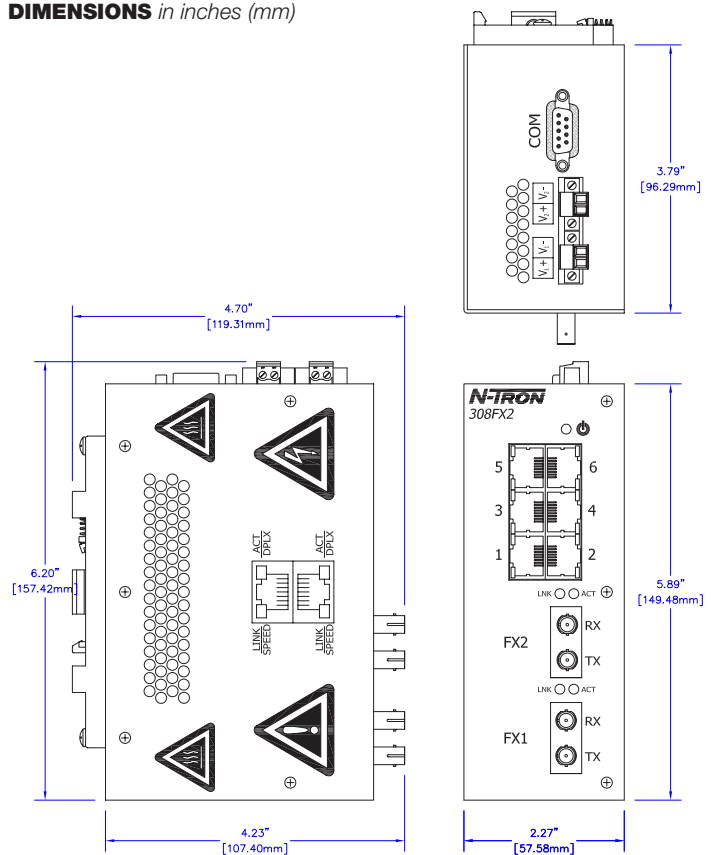
Front: 4" (10.16 cm)
 Top: 1" (2.54 cm)

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
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



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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.

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