

# 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

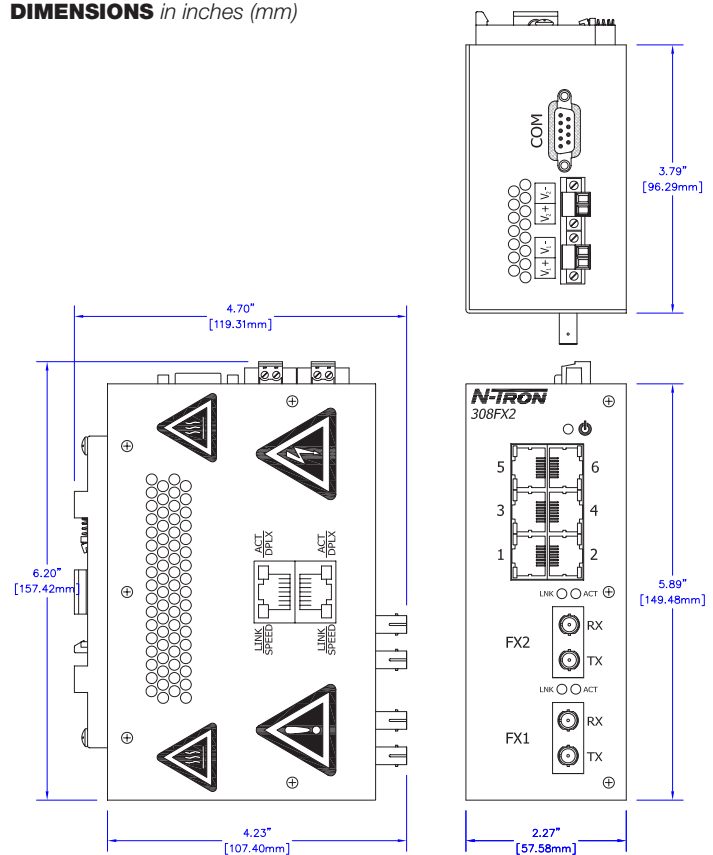
Front: 4" (10.16 cm)  
 Top: 1" (2.54 cm)

## 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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