305FX Industrial Ethernet Switch

N-Tron® Networking Series



▶▶▶ Unmanaged Industrial Ethernet Switch

The N-Tron® 305FX is an unmanaged, five port Industrial Ethernet Switch.

It is housed in a ruggedized DIN-RAIL enclosure and is designed for use in industrial data acquisition, control, and Ethernet I/O applications.



APPLICATIONS

- > Shipboard Applications
- > Electric Utility Substations
- > Traffic Control

PRODUCT HIGHLIGHTS

- > Compact Size, Small Footprint
- > 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

- > American Bureau of Shipping (ABS) Type Approval
- > Four 10/100 BaseTX RJ-45 Ports
- > One 100BaseFX Port ST (shown) or SC
- > RJ-45 Ports Support Full/Half Duplex Operation
- > LED Link/Activity Status Indication
- > Auto Sensing Duplex, Speed and MDIX (RJ-45)
- > Up to 1.0 Gb/s Maximum Throughput
- > Rugged Industrial DIN-RAIL Enclosure

- > Redundant Power Inputs (10-30 VDC)
- > 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.













>>> 305FX Industrial Ethernet Switch Specifications

CASE DIMENSIONS

Height: 3.5" (8.9 cm) Width: 2.1" (5.4 cm) Depth: 3.4" (8.7 cm) Weight: 0.75 lbs (0.34 kg)

ELECTRICAL

Input Voltage: 10-30 VDC Input Current: 250 mA@24V BTU/hr: 20.5@24 VDC Inrush: 10Amp/0.9ms@24V

ENVIRONMENTAL

Operating Temperature: -20°C to 70°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 MOUNTING)

Shock: 200g @ 10msVibration/Seismic: 50g, 5-200Hz, Triaxial

NETWORK MEDIA

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

Multimode 50-62.5/125µm Singlemode 7-10/125µm

CONNECTORS

10/100BaseTX: Four (1) RJ-45 TX Ports 100BaseFX: One (1) ST or SC Duplex Port

RECOMMENDED WIRING CLEARANCE

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

INDUSTRIAL NETWORK SWITCH

Compact Size, Small Footprint High Reliability/Availability Extended Environmental Specifications Ruggedized DIN-Rail Enclosure High Performance High MTBF >2M Hours (measured)

EASE OF USE

Plug & Play Operation Four Auto Sensing 10/100BaseTX RJ-45 Ports Auto Sensing Duplex, Speed and Cable Type Unmanaged Operation Compact DIN-Rail Package

INCREASED PERFORMANCE

Full Wire Speed Capable 100BaseFX Fiber Uplink Full Duplex Capable Eliminates Network Collisions Increases Network Determinism N-View Monitoring option available

REGULATORY APPROVALS

FCC Part 15 Class A

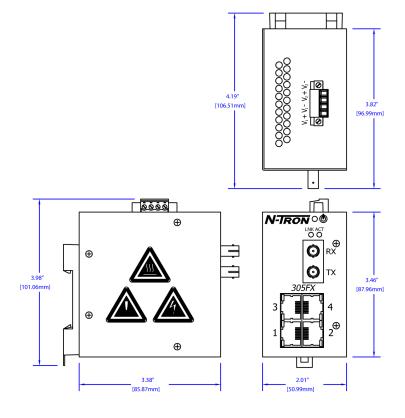
US - UL Listed UL508, ANSI/ISA 12.12.01-2007 for use in Class I and II, Division 2 and Class III Division 1 and 2 Hazardous Locations Groups A,B,C,D,T4A

Canada - C22.2 No. 142-M1987 and C22.2 No. 213-1987 for use in Class I, Division 2 Hazardous Locations CE: EN61000-6-2,4, EN55011, EN61000-4-2,3,4,5,6 ABS Type Approval for Shipboard Applications

EE 1613 for Electric Utility Substations

GOST-R Certified RoHS Compliant

DIMENSIONS in inches (mm)



ORDERING GUIDE

PART NUMBER	DESCRIPTION			
305FX-XX	5-port (4 10/100BaseTX, 1 100Base Fiber Uplink) Industrial Ethernet Switch, DIN-Rail			
305FX-N-XX	5-port (4 10/100BaseTX, 1 100Base Fiber Uplink) Industrial Ethernet Switch, DIN-Rail with N-View Technology			
305FXE-XX-YY	5-port (4 10/100BaseTX, 1 100Base Fiber Uplink) Industrial Ethernet Switch, DIN-Rail			
305FXE-N-XX-YY	5-port (4 10/100BaseTX, 1 100Base Fiber Uplink) Industrial Ethernet Switch, DIN-Rail with N-View Technology			
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				

FIBER TRANSCEIVER CHARACTERISTICS

80 for 80km max, fiber segment length

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

