

306FX2-N

The *N-TRON®* 306FX2 is an unmanaged six 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.

PRODUCT FEATURES

- Compact Size, Small Footprint
- Full IEEE 802.3 and 1613 Compliance
- NEMA TS1/TS2 Compliance
- American Bureau of Shipping (ABS) Type Approval
- Extended Environmental Specifications
- Four 10/100 BaseTX RJ-45 Ports
- Two 100BaseFX Port ST (shown) or SC
- RJ-45 Ports Support Full/Half Duplex Operation
- LED Link/Activity Status Indication
- · Store-and-forward Technology
- 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-ViewTM OPC Switch Monitoring Option

PRODUCT OVERVIEW

The 306FX2 Industrial Network Switch is designed to meet and exceed the most demanding industrial communication requirements while providing high throughput and minimum downtime.

The 306FX2 provides four RJ-45 auto sensing 10/100BaseTX ports, plus two fiber based Fast Ethernet uplink port. All TX ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The 306FX2 auto-negotiates the speed and flow control capabilities of the four TX port connections and configures itself automatically. The two fiber optic ports utilize industry standard ST or SC duplex connectors and are configured for full duplex operation. Both multimode and singlemode fiber models are available.

The TX ports of the 306FX2 are auto sensing, so there will be no need to make extensive wiring changes due to future upgrades of host computers, plant systems, or Ethernet I/O modules. The switching fabric simply scales up or down automatically to match network environments.

The 306FX2 supports up to 4,000 MAC addresses, enabling these products to support extremely sophisticated and complex network architectures.



The 306FX2 is an ideal candidate for upgrading existing hubs and repeaters to increase bandwidth and determinism by virtually eliminating network collisions. The product provides a cost effective solution while maintaining the plug & play simplicity of an unmanaged hub.

The 306FX2 can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The 306FX2 has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience the 306FX2 can be DIN-Rail mounted alongside Ethernet I/O or other industrial equipment.

The unique compact size provides a small footprint, conserving space in the most critical dimension. The *306FX2* can also be panel mounted if desired.

To increase reliability, the *306FX2* includes redundant power inputs. LED's are provided to display the link status and activity of each port, as well as power on/off status.

N-VIEW OPC PORT MONITORING (With -N Option Only) The *N-TRON* N-View OLE for Process Control (OPC) server software can be combined with popular HMI software packages to add network traffic monitoring, trending and alarming to any application using *N-TRON* switches configured with the N-View option. *N-TRON's* N-View OPC Server collects 41 different traffic variables per port and 5 system level variables per switch. This information can provide a complete overview of the network load, service quality, and packet traffic. OPC client software can use N-View OPC Server data to resolve network problems quickly and improve system



QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV

=== ISO 9001:2000 ==

306FX2-N SPECIFICATIONS

Case dimensions

 Height:
 3.5"
 (8.8 cm)

 Width:
 2.0"
 (5.0 cm)

 Depth:
 3.4"
 (8.6 cm)

 Weight:
 0.75 lbs
 (0.34 kg)

Electrical

Input Voltage: 10-30 VDC
Input Current: 250 mA@24V
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 @ 10ms

Vibration/Seismic: 50g, 5-200Hz, Triaxial

Network Media

10BaseT: >Cat3 Cable 100BaseTX: >Cat5 Cable

100BaseFX

Multimode: $50-62.5/125\mu m$ Singlemode: $7-10/125\mu m$

Connectors

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

Recommended Wiring Clearance

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

Fiber Transceiver Characteristics

Fiber Length	2km*	15km**	40km**	80km**
TX Power Min	-19dBm	-15dBm	-5dBm	-5dBm
RX Sensitivity Max	-32dBm	-29dBm	-34dBm	-34dBm
Wavelength	1310nm	1310nm	1310nm	1550nm

^{*} Multimode Fiber Optic Cable ** Singlemode Fiber Optic Cable

Regulatory Approvals

FCC Part 15 Class A UL Listed 1604 (US and Canada) CLASS I, DIV 2, GROUPS A,B,C,D,T4A,

CE: EN61000-6-2,4, EN55011, EN61000-4-2,3,4,5,6 ABS Type Approval for Shipboard Applications

GOST-R Certified

RoHS Compliant

BENEFITS

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 Switch Viewing Option

Ordering Information

306FX2-XX 100BaseFX multimode fiber 306FX2-N-XX with N-View Firmware Option 306FXE2-XX-YY 100BaseFX singlemode fiber 306FXE2-N-XX-YY with N-View Firmware Option

Where "XX" is: ST for ST style fiber connector

SC for SC style fiber connector

Where "YY" is: 15 for 15km max. fiber segment length

40 for 40km max. fiber segment length 80 for 80km max. fiber segment length

Contact Information

Secure online ordering 24/7/365 from



International Headquarters: 707 Dayton Road - PO Box 1040 - Ottawa, IL 61350 USA 815-433-5100 Fax 815-433-5100 Fax 815-433-5100 Fax 815-433-5100 Fax 915-400 orders@bb-elec.com support@bb-elec.com European Headquarters: Westlink Commercial Park - Oranmore Co. Galway - Ireland +353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-europe.com support@bb-europe.com

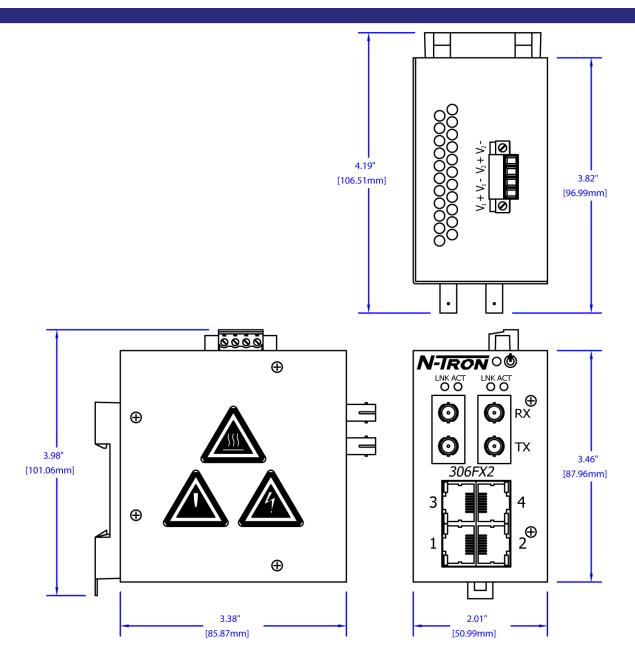
Website: www.n-tron.com Email: N-TRON_info@n-tron.com

REV 090804



QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV

=== ISO 900I:2000 ====



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Ethernet Modules category:

Click to view products by B+B SmartWorx manufacturer:

Other Similar products are found below:

TDKEZW3 V23993-USB1029A 100-POE4 I210T1BLK X520QDA1 BCM84794A1KFSBG X520DA2OCP 808-38157 7506GX2 TC

EXTENDER 2001 ETH-2S 105FX-SC-MDR 110FX2-SC BCM54291B0IQLEG 7000-P3201-P050150 750-1415 750-494 750-495 750-612

750-613 750-627 750-643 750-940 753-440 753-540 753-650/003-000 852-1322 852-1328 852-1812 852-1813 852-1816 LANTICK PE
0-16 LANTICK PE-16-0 RBMTXLITE-L4X2.X.X.X.X. USR-TCP232-T2 2017008 EKI-7708E-4F-AE EKI-7708E-4FP-AE EKI-7708G
4FP-AE 2352903-2 753-620 EGU-0702-SFP-T SW-125 SW-525 SW-725 1005957 1006191 304TX-N WIZ107SR_TTL ES-320

TDKEZW5