

The *809FX* is an unmanaged 9 port Industrial Ethernet Switch. It is housed in a ruggedized rackmount steel enclosure, and is designed for use in mission critical data acquisition, control, and MIS applications.

PRODUCT FEATURES

- Full IEEE 802.3 & 100BASE-FX Compliance
- Extended Environmental Specifications
- Support for Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Auto Sensing Speed and Flow Control
- Up to 1.8 Gb/s Maximum Throughput
- Internal Power Supply
- Plug and Play Operation
- Rugged Industrial Rackmount Enclosure

PRODUCT OVERVIEW

The N-TRON™ *809FX* Industrial Network Switch is designed to solve the most demanding industrial communications requirements while providing high throughput and minimum downtime.

The *809FX* provides 8 RJ-45 auto-sensing 10/100BaseT ports, plus a fiber based Fast Ethernet uplink port. All ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The *809FX* auto-negotiates the speed and flow control capabilities of the 8 UTP port connections, and configures itself automatically. Since the *809FX* is auto-sensing, there will be no need to make extensive wiring changes if upgrades are made to the host computers or plant systems. The switching fabric simply scales up or down automatically to match your specific network environment.

The 9th port is a 100BaseFX fiber optic uplink utilizing industry standard ST or SC duplex connectors and is user configurable for full or half duplex operation. The *809FX*



supports up to 8000 MAC addresses, thus enabling these products to support extremely sophisticated and complex network architectures.

The N-TRON *809FX* is an ideal candidate for upgrading existing hubs and repeaters to increase bandwidth and determinism by virtually eliminating network collisions. The product also keeps the network affordable, while maintaining the plug & play simplicity of the unmanaged hub.

The *809FX* can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The *809FX* has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience the network switch can now be rack mounted alongside PLC, DCS, I/O, PC, or other Industrial Rackmount Equipment.

In addition, the N-TRON *809FX* has an internal power supply that is 110/220V auto-sensing, so there is no need to specify different products for international applications.

LED's are provided to display the link status and activity of each port, as well as power on/off status and any controller detected errors.

BENEFITS

Industrial Network Switch

- Highest Reliability/Availability
- Extended Environmental Specifications
- Ruggedized Enclosure
- High Performance
- High MTBF

Ease of Use

- Plug & Play Operation
- Auto-sensing 10/100BaseT
- Auto-sensing Full/Half Duplex
- Unmanaged Operation
- Standard EIA 19" Rackmount Installation

Increased Performance

- Full Wire Speed Capable
- 100BaseFX Fiber Uplink
- Full Duplex Capable
- Eliminates Network Collisions
- Increases Network Determinism

SPECIFICATIONS

Physical

<i>Height:</i>	3.5"(2U)	(88.9 mm)
<i>Width:</i>	19.0"	(482.6 mm)
<i>Depth:</i>	11.0"	(279.4 mm)
<i>Weight:</i>	~ 10 lbs	(4.5 kg)

Electrical

<i>Input Voltage:</i>	115/230 V~
<i>Input Frequency:</i>	50/60 Hz
<i>Input Current:</i>	1A@115V, 0.6A@230V

Environmental

<i>Operating Temperature:</i>	0°C to 60°C 32°F to 140°F
<i>Storage Temperature:</i>	-20°C to 85°C -4°F to 185°F
<i>Operating Humidity:</i>	10% to 90% (Non Condensing)
<i>Operating Altitude:</i>	0 to 10,000 ft.

Network Media

<i>10/100BaseT:</i>	Category-3,4,5 Cable
<i>100BaseFX:</i>	62.5/50 mm Fiber @ 1300nm

Fiber Transceiver Characteristics

<i>Transmit Power:</i>	-17dBm (typical)
<i>Receiver Sensitivity:</i>	-33dBm (typical)
<i>Segment Length:</i>	FX - up to 2 km FXE - up to 15km

Connectors

<i>10/100BaseT:</i>	Eight (8) RJ-45 UTP ports
<i>100BaseFX:</i>	SC or ST Duplex Port

Recommended Wiring Clearance:

<i>Front & Rear:</i>	5" (127mm)
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Emissions and Safety Approvals:

FCC Part 15 Class A
CE
TUV-GS
NRTL (UL 1950 and IEC60950)
CNRTL

Contact Information

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Ordering Information:

809FX-ST, 809FXE-ST
809FX-SC, 809FXE-SC