

The **305FX** is an unmanaged five port Industrial Ethernet Switch. It is housed in a ruggedized DIN-Rail enclosure, and is designed for use in mission critical data acquisition, control, and Ethernet I/O applications.

PRODUCT FEATURES

- Compact Size, Smaller Footprint
- Full IEEE 802.3 and 1613 Compliance
- NEMA TS1/TS2 Compliance
- American Bureau of Shipping (ABS) Type Approval
- Four 10/100BaseTX RJ-45 Ports
- One 100BaseFX Port ST (shown) or SC
- Extended Environmental Specifications
- RJ-45 Ports Support Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Auto Sensing Duplex, Speed, and MDIX (RJ-45)
- Store-and-forward Technology
- Up to 1.0 Gb/s Maximum Throughput
- Rugged Industrial DIN-Rail Enclosure

PRODUCT OVERVIEW

The **N-TRON™ 305FX** Industrial Network Switch is designed to solve the most demanding industrial communications requirements while providing high throughput and minimum downtime.

The **305FX** provides four RJ-45 auto sensing 10/100BaseTX ports, plus a fiber based Fast Ethernet uplink port. All TX ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The **305FX** auto-negotiates the speed and flow control capabilities of the four TX port connections, and configures itself automatically. The 5th port is a 100BaseFX fiber optic uplink utilizing industry standard ST or SC duplex connectors.

Since the TX ports of the **305FX** are auto sensing, there will be no need to make extensive wiring changes if upgrades are made to the host computers, plant systems, or Ethernet I/O modules. The switching fabric simply scales up or down automatically to match your specific network environment.

The **305FX** supports up to 4,000 MAC addresses, thus enabling these products to support extremely sophisticated and complex network architectures.

The **N-TRON 305FX** 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 **305FX** can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The **305FX** has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience the **305FX** can be DIN-Rail mounted alongside Ethernet I/O or other industrial equipment.

The unique compact size provides a smaller footprint, conserving space in the most critical dimension. In addition, as with other DIN-Rail devices, the **305FX** can be panel mounted.

To increase reliability, the **305FX** contains 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 reliability.

