The **N-TRON® 306TX** 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
- Six 10/100 BaseTX RJ-45 Ports
- Supports Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Store-and-forward Technology
- Auto Senses Speed and Flow Control
- MDIX Auto Cable Sensing (RJ-45)
- Up to 1.0 Gb/s Maximum Throughput
- Rugged Industrial DIN-RAIL Enclosure
- Redundant Power Inputs (10-30 VDC)
- N-View™ OPC Switch Monitoring Option

**PRODUCT OVERVIEW**

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

The **306TX** provides six RJ-45 auto sensing 10/100BaseTX ports. All ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The **306TX** auto-negotiates the speed and flow control capabilities of the TX copper port connection, and configures itself automatically.

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

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

The **306TX** 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 **306TX** simplifies plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The **306TX** has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience the network switch 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 **306TX** can also be panel mounted if desired.

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

**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.
### 306TX SPECIFICATIONS

**Case Dimensions**
- Height: 3.1" (7.8 cm)
- Width: 2.0" (5.1 cm)
- Depth: 3.4" (8.6 cm)
- Weight: 0.75 lbs (0.3 kg)

**Electrical**
- Input Voltage: 10-30 VDC
- Input Current: 250 mA@24V
- Inrush: 8.0Amp/0.6ms@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

**Connectors**
- 10/100BaseTX: Six (6) RJ-45 TX Ports

**Recommended Wiring Clearance**
- Front: 4" (10.16 cm)
- Top: 1" (2.54 cm)

**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
- EN61000-4-2,3,4,5,6;
- EN55011
- 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
- 6 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
- Full Duplex Capable
- Eliminates Network Collisions
- Increases Network Determinism
- N-View Switch Viewing Option

### Ordering Information

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<td>306TX-N</td>
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### Contact Information

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