

The **308TX** is an unmanaged eight 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, Smaller Footprint
- Full IEEE 802.3 and 1613 Compliance
- NEMA TS1/TS2 Compliance
- American Bureau of Shipping (ABS) Type Approval
- Extended Environmental Specifications
- Eight 10/100 BaseTX RJ-45 Ports
- Supports Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Auto Senses Speed and Flow Control
- MDIX Auto Cable Sensing
- Store-and-forward Technology
- Rugged Industrial DIN-Rail Enclosure

PRODUCT OVERVIEW

The **N-TRON™ 308TX** Industrial Network Switch is designed to solve the most demanding industrial communications requirements while providing high throughput and minimum downtime.

The **308TX** provides eight RJ-45 auto sensing 10/100BaseTX ports. All ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The **308TX** auto-negotiates the speed and flow control capabilities of all eight port connections, and configures itself automatically.

Since the **308TX** is 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 **308TX** supports up to 4,000 MAC addresses, thus enabling these products to support extremely sophisticated and complex network architectures.

The **N-TRON 308TX** is an ideal candidate for upgrading existing hubs and repeaters to increase bandwidth and determinism by virtually eliminating network collisions. The product also keep the network affordable, while maintaining the plug & play simplicity of the unmanaged hub.

The **308TX** can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back



to a climate controlled environment. The **308TX** has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience the **308TX** 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 **308TX** can be panel mounted.

To increase reliability, the **308TX** 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 OPTION

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.

BENEFITS

Industrial Network Switch

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

Ease of Use

- Plug & Play Operation
- Eight 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

Contact Information

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Ordering Information

308TX Eight 10/100BaseTX Ports
308TX-N with N-View Firmware Option

SPECIFICATIONS

Physical

<i>Height:</i>	3.46"	(8.80 cm)
<i>Width:</i>	2.01"	(5.10 cm)
<i>Depth:</i>	3.38"	(8.59 cm)
<i>Weight:</i>	0.75 lbs	(0.34 kg)

Electrical

<i>Input Voltage:</i>	10-30 VDC
<i>Input Current:</i>	250 mA@24V
<i>Inrush:</i>	9.0Amps/0.5ms@24V

Environmental

<i>Operating Temperature:</i>	-20°C to 70°C
<i>Storage Temperature:</i>	-40°C to 85°C
<i>Operating Humidity:</i>	10% to 95% (Non Condensing)
<i>Operating Altitude:</i>	0 to 10,000 ft.

Shock and Vibration (bulkhead mounting)

<i>Shock:</i>	200g @ 10ms
<i>Vibration/Seismic:</i>	50g, 5-200Hz, Triaxial

Network Media

<i>10BaseT:</i>	>Cat3 Cable
<i>100BaseTX:</i>	>Cat5 Cable

Connectors

<i>10/100BaseTX:</i>	Eight (8) RJ-45 TX Ports
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Recommended Wiring Clearance

<i>Front:</i>	4" (10.16 cm)
<i>Top:</i>	1" (2.54 cm)

Regulatory Approvals

FCC Part 15 Class A
UL 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