

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 (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.

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

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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 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,
GOST-R Certified, RoHS Compliant