

The *405TX* is an unmanaged 5 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

- Full IEEE 802.3 & 100BASE-TX Compliance
- Extended Environmental Specifications
- Support for Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Auto Sensing Speed and Flow Control
- Up to 1.0 Gb/s Maximum Throughput
- Plug and Play with Ethernet I/O
- Compact, Space Saving Package
- Rugged Industrial DIN-Rail Enclosure
- Redundant Power Inputs (10-30 VDC)

PRODUCT OVERVIEW

The N-TRON™ *405TX* Industrial Network Switch is designed to solve the most demanding industrial communications requirements while providing high throughput and minimum downtime.

The *405TX* provides 5 RJ-45 auto-sensing 10/100BaseT ports. All ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The *405TX* auto-negotiates the speed and flow control capabilities of the 5 UTP port connections, and configures itself automatically. The 5th (X) port is permanently configured as an uplink with NIC pinouts.

Since the *405TX* 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 *405TX* supports up to 4,000 MAC addresses, thus



enabling these products to support extremely sophisticated and complex network architectures.

The N-TRON *405TX* 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 *405TX* can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The *405TX* 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 DIN-Rail mounted alongside Ethernet I/O or other Industrial Equipment.

A unique feature of the packaging allows horizontal or vertical mounting on the rail, conserving space in the most critical dimension. In addition, as with other DIN-Rail devices, the *405TX* can be panel mounted.

To increase reliability, the *405TX* 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 and any controller detected errors.

BENEFITS

Industrial Network Switch

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

Ease of Use

- Plug & Play Operation
- Auto-sensing 10/100BaseT
- Auto-sensing Full/Half Duplex
- Unmanaged Operation
- Compact DIN-Rail Package

Increased Performance

- Full Wire Speed Capable
- Full Duplex Capable
- Eliminates Network Collisions
- Increases Network Determinism

SPECIFICATIONS

Physical

Height: 2.3" (5.84 cm)
Width: 5.1" (12.95 cm)
Depth: 3.1" (7.87 cm)
Weight: 1.25 lbs (0.6 kg)
(note: can be mounted horizontally or vertically)

Electrical

Input Voltage: 10-30 VDC
Input Current: 0.25A@24V

Environmental

Operating Temperature: 0°C to 70°C
32°F to 158°F
Storage Temperature: -20°C to 85°C
-4°F to 185°F
Operating Humidity: 10% to 90%
(Non Condensing)
Operating Altitude: 0 to 10,000 ft.

Network Media

10BaseT: Category 3,4,5 Cable
100BaseT: Category 5 Cable

Connectors

10/100BaseT: Five (5) RJ-45 UTP ports

Recommended Wiring Clearance:

Front: 2" (5.08 cm)
Side: 1" (2.54 cm)

Emissions and Safety Approvals:

FCC Part 15 Class A, CE, UL Listed
CLASS I, DIV 2 (Zone 2), GROUPS A,B,C,D

Contact Information

N-TRON Corp.
578 Azalea Rd.
Suite 105
Mobile, AL 36609

TEL: (334) 666-9878
FAX: (334) 666-9833
URL: <http://www.n-tron.com>

Ordering Information:
405TX