N-TRON
THE INDUSTRIAL NETWORK COMPANY

405TX

The *405TX* 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

- Full IEEE 802.3 Compliance
- Five 10/100BaseTX RJ-45 Ports
- Extended Environmental Specifications
- Support for Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Auto Sensing Speed and Flow Control
- Store-and-forward Technology
- Auto Sensing Cable Sensing (MDIX)
- Up to 1.0 Gb/s Maximum Throughput
- Compact, Space Saving Package
- Rugged Industrial DIN-Rail Enclosure
- Redundant Power Inputs (10-30 VDC)
- N-View Switch Monitoring Option

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 Five RJ-45 auto sensing 10/100BaseTX 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 TX port connections, and configures itself automatically.

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.

N-VIEW OPC SWITCH 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.

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BENEFITS

Industrial Network Switch
- High Reliability/Availability
- Extended Environmental Specifications
- Ruggedized DIN-Rail Enclosure
- High Performance
- High MTBF - >2M Hours (measured)

Ease of Use
- Plug & Play Operation
- Auto Sensing 10/100BaseTX
- Auto Sensing Full/Half Duplex
- Auto Cable Sensing (MDIX)
- 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

PACIFIC PARTS & CONTROLS, INC.
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www.pacificparts.com
Electrical Supply Distributor

Ordering Information

405TX	Five 10/100BaseTX Ports
405TX-N	with N-View Option

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
Inrush:	14.0Amp/0.9ms@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.

Network Media

10BaseT:	>Cat3 Cable
100BaseTX:	>Cat5 Cable

Connectors

10/100BaseT:	Five (5) RJ-45 TX 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 (US & Canada)
CLASS I, DIV 2, GROUPS A,B,C,D,T4A

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