N-TRON

THE INDUSTRIAL NETWORK COMPANY

105TX

The *105TX* is a low cost unmanaged five port Industrial Ethernet Switch. It is housed in a hardened, metal, DIN-Rail enclosure, and is designed for use in mission critical data acquisition, control, and Ethernet I/O applications.

PRODUCT FEATURES

- Compact, Space Saving Package
- Full IEEE 802.3 Compliance
- Five 10/100BaseTX RJ-45 Ports
- Unmanaged Operation
- Extended Environmental Specifications
  - -40ºC to 80º Operating Temperature
  - >2M Hours MTBF
- Supports Full/Half Duplex Operation
- Up to 1.0 Gb/s Maximum Throughput
- MDIX Auto Sensing Cable
- Auto Sensing Speed and Flow Control
- Full Wire Speed Communications
- Store-and-forward Technology
- Redundant Power Inputs (10-30 VDC)
- LED Link/Activity Status Indication
- Hardened Metal DIN-Rail Enclosure

PRODUCT OVERVIEW

The *N-TRON® 105TX* Industrial Network Switch is designed to solve the most demanding industrial communications requirements while providing high throughput and minimum downtime.

The *105TX* 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 *105TX* auto-negotiates the speed and flow control capabilities of the five TX port connections, and configures itself automatically.

Since the *105TX* 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 *105TX* supports up to 2,000 MAC addresses, thus enabling these products to support extremely sophisticated and complex network architectures.

The *N-TRON 105TX* 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 *105TX* can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The *105TX* 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.

To increase reliability the *105TX* provides dual redundant power inputs. LED's are provided to display the link status and activity of each port.

BENEFITS

Industrial Network Switch
- Compact Size / Smaller Footprint
- Extended Environmental Specifications
- Hardened Metal DIN-Rail Enclosure
- High Performance
- High MTBF >2M Hours
- ESD Protection Diodes on RJ-45 Ports
- Surge Protection Diodes on Power Inputs

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

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

Contact Information

N-TRON Corp.
820 S. University Blvd.,
Suite 4E
Mobile, AL 36609 USA
TEL: (251) 342-2164
FAX: (251) 342-6353
Website: www.n-tron.com
Email: info@n-tron.com

N-TRON Europe GmbH
Alte Steinhauserstr 19
6330 Cham / ZG
Switzerland
TEL: +41 41 7406636
FAX: +41 41 7406637

Ordering Information

105TX	Five 10/100BaseTX Ports
NTPS-24-1.3	DIN-Rail Power Supply 24V@1.3 Amp

SPECIFICATIONS

Physical
Height:	2.88"	(7.31cm)
Width:	1.50"	(3.81 cm)
Depth:	3.55"	(9.02 cm)
Including DIN-Rail Mount:	4.22"	(10.72 cm)
Weight:	0.54 lbs. (0.25 kg)	
DIN-Rail:	35mm	

Electrical
Input Voltage:	10-30 VDC
Steady Input Current:	215mA@24V
Inrush:	7.8Amp/0.7ms@24V

Environmental
Operating Temperature:	-40°C to 80°C
Storage Temperature:	-40°C to 85°C
Operating Humidity:	10% to 95% (Non Condensing)
Operating Altitude:	0 to 10,000 ft.

Reliablity
MTBF:	>2 Million Hours

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

Connectors
10/100BaseTX:	Five (5) RJ-45 TX Copper Port

Recommended Wiring Clearance
Front:	2" (5.08 cm)
Top:	1" (2.54 cm)

Regulatory Approvals
FCC Title 47 Part 15 Class A,
CE: EN61000-6-2,4, EN55011, EN61000-4-2,3,4,5,6
UL Listed (US and Canada) per ANSI/ISA-12.12.01-2000
This apparatus is suitable for use in
Class I, Div 2, Groups A,B,C,D,T4A
Designed to comply with:
IEEE 1613 for Electric Utility Substations,
ABS Standards for Shipboard Applications,
and NEMA TS1/TS2 for Traffic Control Equipment

REV 070808

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Ethernet Modules *category:*

Click to view products by N-Tron *manufacturer:*

Other Similar products are found below :

1026937 1026932 M38510/00302BCA 70001610 70001634 850-15633 PD-AS-951/12-24 GX-OC1601 1402407 I210T1 I350T4V2
SBL2EX SL170115 GX-OD1612 CPTS-4R4E-R TDKEZW3 I350F2 I350F2BLK I350T2V2 V23993-USB1029A 100-POE4 105FX-ST
105TX-SL SEG305-T 70001992 70001993 708TX 854-19720 I350T4V2BLK I350T2V2BLK I210T1BLK PD-OUT/MBK/S SX-BR-
4600WAN2-US W4S105C X710DA4FHBLK I350T2V2BLK   936714 GX-ID1611 3G8F7-DRM21-E EKI-2525I-BE
BCM53426A0KFSBG PCM-24R2GL-AE 96NIC-1G4P-PE-IN2 0.70001777 BCM53402A0KFSBG 105FXE-SC-15-POE PD-OUT/MBK/G
856-15410 X520QDA1 BCM84794A1KFSBG X520DA2OCP