

The *108TX* is a low cost unmanaged eight 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
- Eight 10/100BaseTX RJ-45 Ports
- Unmanaged Operation
- Extended Environmental Specifications
 - -40°C to 70°C Operating Temperature
 - >2M Hours MTBF
- Supports Full/Half Duplex Operation
- Up to 1.6 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)
- ESD Protection Diodes on all Ports
- Surge Protection Diodes on Power Inputs
- LED Link/Activity Status Indication
- Hardened Metal DIN-Rail Enclosure

PRODUCT OVERVIEW

The *N-TRON*® *108TX* Industrial Network Switch is designed to solve the most demanding industrial communications requirements while providing high throughput and minimum downtime.

The *108TX* 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 *108TX* auto-negotiates the speed and flow control capabilities of the eight TX port connections, and configures itself automatically.

Since the *108TX* 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 *108TX* supports up to 2,000 MAC addresses, thus enabling these products to support extremely sophisticated and complex network architectures.

The *N-TRON 108TX* 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 *108TX* can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The *108TX* 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 *108TX* provides dual redundant power inputs. LEDs 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 all Ports
- Surge Protection Diodes on Power Inputs

Ease of Use

- Plug & Play Operation
- Auto Sensing 10/100BaseTX
- Auto Negotiation 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 Steinhäuserstr 19
6330 Cham / Zg
Switzerland
TEL: +41 41 7406636
FAX: +41 41 7406637

Ordering Information

108TX	Eight 10/100BaseTX Ports
NTPS-24-1.3	DIN-Rail Power Supply 24V@1.3 Amp

SPECIFICATIONS

Physical

Height:	3.50"	(8.89 cm)
Width:	1.50"	(3.81 cm)
Depth Incl. DIN-Rail Clip:	4.22"	(10.72 cm)
Weight:	0.64 lbs.	(0.29 kg)
DIN-Rail:	35mm	

Electrical

Input Voltage:	10-30 VDC
Steady Input Current:	250mA@24V
Inrush:	8.1Amp/0.7ms@24V

Environmental

Operating Temperature:	-40°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.

Reliability

MTBF:	>2 Million Hours
-------	------------------

Network Media

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

Connectors

10/100BaseTX:	Eight (8) RJ-45 TX Copper Ports
---------------	------------------------------------

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) ANSI/ISA-12.12.01-2000
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

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](#)