N-TRON

THE INDUSTRIAL NETWORK COMPANY

108TX-HV

The *N-TRON® 108TX-HV* 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 railway, mission critical data acquisition, control, and Ethernet I/O applications.

PRODUCT FEATURES

- Compact, Space Saving Package
- Full IEEE 802.3 Compliance
- EN50155 for Railway applications
- Eight 10/100BaseTX RJ-45 Ports
- Unmanaged Operation
- Extended Environmental Specifications
  - -40ºC to 70ºC 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 10-60 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 *108TX-HV* industrial network switch is designed to solve the most demanding industrial communications requirements while providing high throughput and minimum downtime.

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

Since the *108TX-HV* 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 specific network environments.

The *108TX-HV* supports up to 2,000 MAC addresses, enabling these products to support extremely sophisticated and complex network architectures.

The *N-TRON 108TX-HV* is an ideal candidate for upgrading existing hubs and repeaters to increase bandwidth and determinism by virtually eliminating network collisions. The *108TX-HV* provides an affordable network solution and maintains the plug & play simplicity of the unmanaged hub.

The *108TX-HV* can simplify plant wiring by eliminating the need to bring data acquisition and control network connections back to a climate controlled environment. The *108TX-HV* 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-HV* provides dual redundant power inputs. LEDs are provided to display the link status and activity of each port.

108TX-HV SPECIFICATIONS

Case Dimensions

Height:	3.5"	(8.9 cm)
Width:	1.5"	(3.8 cm)
Depth:	3.6"	(9.0 cm)
Weight:	0.7 lbs.	(0.4 kg)
DIN-Rail:	35mm	

Electrical

Input Voltage:	10-60VDC
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 Copper Ports

Recommended Wiring Clearance

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

Ordering Information

108TX-HV	Eight 10/100BaseTX Ports, 10-60VDC
NTPS-48-2	N-TRON Power Supply - (2 Amp @ 48VDC)

BENEFITS

Industrial Network Switch
- Compact Size / Small 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

Regulatory Approvals
FCC/CE CFR 47 Part 15, Subpart B, Class A
EN55022, ICES-003
EN 61000-4-3/4/5/6
EN50155 for Railway Applications
GS/CE: EN60950-1

Contact Information

N-TRON Corp.
820 S. University Blvd., Suite 4E
Mobile, AL 36609 USA

N-TRON Europe GmbH
Alte Steinhauserstr 19
6330 Cham / Zg, Switzerland

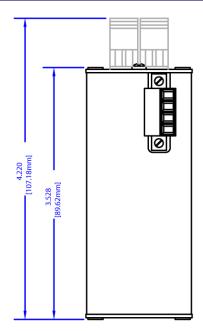*Secure online ordering 24/7/365 from*
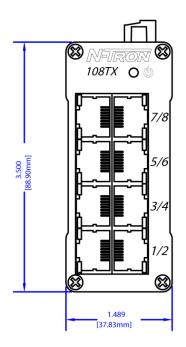
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International Headquarters: 707 Dayton Road - PO Box 1040 - Ottawa, IL 61350 USA
815-433-5100 Fax 815-433-5104 www.bb-elec.com orders@bb-elec.com support@bb-elec.com
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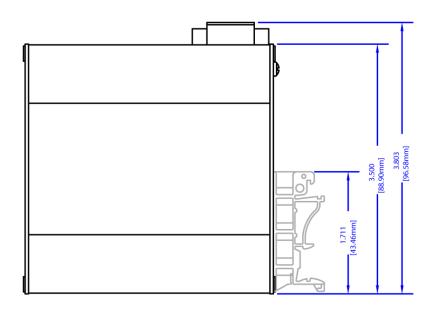+353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-europe.com support@bb-europe.com

4.220 [107.18mm]

3.528 [89.62mm]

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108TX

7/8

5/6

3/4

1/2

3.500 [88.90mm]

1.489 [37.83mm]

3.500 [88.90mm]

3.803 [96.58mm]

1.711 [43.46mm]

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