708TX Industrial Ethernet Switch

N-Tron Networking Series

red lon

Managed Industrial Ethernet Switch

The N-TRON® 708TX Industrial Ethernet Switch combines outstanding performance and ease of use. The fully managed switch is ideally suited for connecting Ethernet-enabled industrial and/or security equipment.

PRODUCT FEATURES

- Eight 10/100BaseTX RJ-45 Ports
- -40°C to 85°C Operating temperature
- ESD and Surge Protection Diodes on all Ports
- Auto Sensing 10/100BaseTX, Duplex, and MDIX
- · Store-and-Forward Technology
- · Rugged DIN-Rail Enclosure
- Redundant Power Inputs (10-30 VDC)
- · Configurable Alarm Contact
- Configurable Bi-Color Fault Status LED

Fully Managed Features:

- · Full SNMP and Web Browser Management
- · Detailed Ring Map and Fault Location Charting
- N-Ring[™] Technology with ~30ms Healing
- N-View[™] OPC Monitoring
- Plug-and-Play IGMP Support
- · 802.1Q tag VLAN and Port VLAN
- 802.1p QoS and Port QoS
- EtherNet/IP[™] CIP Messaging
- LLDP (Link Layer Discovery Protocol)
- Trunking
- Mirroring
- 802.1d, 802.1w, 802.1D RSTP
- DHCP Server, Option 82 relay, Option 61, IP Fallback
- Port Security—MAC Address Based

Management Features

The 708TX offers several management functions that can be easily configured using a web browser.

IGMP Snooping - Internet Group Management Protocol is a feature that allows the 708TX switch to forward and filter multicast traffic intelligently.

VLAN - Virtual Local Area Network allows you to segment the switch in order to create two or more separate local area network domains.

QoS - Quality of Service provides prioritization of network traffic in order to provide better network service. The primary goal of QoS is to improve the latency of prioritized Ethernet packets required for ring management, real-time, and other interactive applications.

Trunking - Trunking (link aggregation) enables multiple physical ports to be linked together and function as one uplink to another N-TRON trunking capable switch configured in the same manner, thereby increasing the bandwidth between switches. This configuration can provide increased bandwidth and redundancy to applications requiring high levels of fault tolerant operation.

Port Mirroring - This function allows the traffic on one port to be duplicated and sent to a designated mirror port. Port mirroring can be used to monitor Ethernet traffic on the designated source port using the assigned mirror port.

Rapid Spanning Tree - This function allows the switch to be configured in a ring or mesh topology, and provides support for redundant path communications with high speed (rapid) healing.



Remote Monitoring Options

For ease of configuration and monitoring, the 708TX offers web browser management and N-View OLE for Process Control (OPC) server software. N-TRON's N-View software can be combined with popular HMI software packages to add network traffic monitoring, trending, and alarming to any application using N-TRON switches. In addition SNMP is available for switch link and status monitoring. The Alarm Contact and Status LED can be configured to respond to power failure on power input 1 or input 2, N-Ring Broken, Partial Break High, Partial Break Low, or if multiple ring managers are detected.

N-Ring Technology

The 708TX ring manager, using N-TRON's N-Ring technology, offers expanded ring size capacity, detailed fault diagnostics, and a standard healing time of ~30ms. The 708TX ring manager periodically checks the health of the ring via packets. If the ring manager stops receiving these health check packets, it converts the ring to a linear bus topology within ~30ms. When all switches in the ring are N-TRON fully managed switches, a detailed ring map and fault location chart will also be provided on the ring manager's web browser and OPC server to identify the health status of the ring. N-Link allows the linking of two N-Rings. Up to 250 fully managed N-TRON switches can participate in N-Ring topologies.

Industrial Packaging and Specifications

The 708TX is designed to operate in industrial environments. It is housed in a rugged steel DIN-Rail enclosure. It has extended industrial specifications and features to meet or exceed the operating parameters of the connected equipment. These include extended temperature ratings, extended shock and vibrations specs, redundant power inputs, and high MTBF (greater than 2M hours).

Ease of Use

The 10/100BaseTX ports are auto sensing and auto configuring. Each copper port is automatically negotiated for maximum speed and performance by default, but can also be hard coded using the user interface. A high-speed processor allows wire speed capability on all 100BaseTX ports simultaneously.



>>> 708TX Specifications

708TX Specifications

Switch Properties

Number of MAC Addresses: 8000

Aging Time: Programmable

Latency Typical: 2.9 µs

Switching Method: Store-and-Forward

Case Dimensions

 Height:
 2.3" (5.8cm)

 Width:
 6" (15.3cm)

 Depth:
 3.8" (9.6cm)

 Weight (max):
 1.7 lbs (0.8kg)

DIN-Rail Mount: 35mm

Electrical

Redundant Input Voltage: 10-30 VDC

Input Current (max): 250mA max@24VDC N-TRON Power Supply: NTPS-24-1.3 (1.3 A@24V)

Environmental

Operating Temperature: -40°C to 85°C Storage Temperature: -40°C to 85°C Operating Humidity: 5% to 95%

(Non Condensing)

Operating Altitude: 0 to 10,000 ft.

Shock and Vibration (bulkhead mounted)

Shock: 200g @ 10ms

Vibration/Seismic: 50g, 5-200Hz, Triaxial

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

Regulatory Approvals

FCC/CE (CFR 47, Part 15, Subpart B, Class A)

EN 55011

ICES-003- Class A

EN61000-4-2/3/4/5/6/8/11, EN61000-6-2/4

UL/cUL: Class I, Div 2, Groups A, B, C, D and T4A

ANSI/ISA 12.12.01-2007

ATEX II 3 G Ex nC (DEMKO 03 ATEX 0316686U)

ABS Type Approval for Shipboard Applications

DNV Type Approval Certification EN50155 for Railway Applications

GOST-R Certified

Bolls Compliant

RoHS Compliant

Designed to comply with:

IEEE 1613 for Electric Utility Substations

NEMA TS1/TS2 for Traffic Control

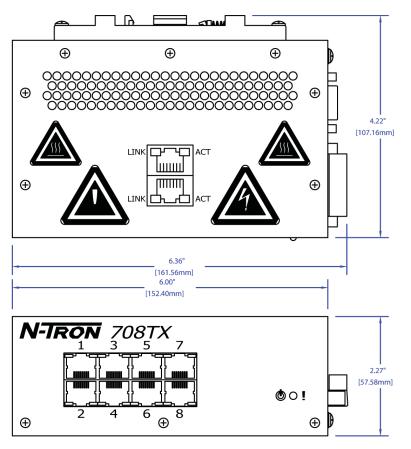
708TX Industrial Ethernet Switch Ordering Information

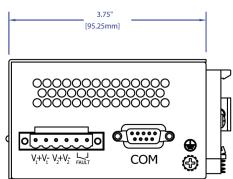
Eight 10/100BaseTX Ports 708TX

700-PM Panel Mount Kit

NTPS-24-1.3 N-TRON Power Supply - (1.3 Amp @ 24VDC)

19" Universal Rack Mount Kit **URMK**







www.redlion.net

Connect. Monitor. Control.

Americas sales@redlion.net

Asia-Pacific asia@redlion.net

Europe Middle East Africa europe@redlion.net

+1 (717) 767-6511

As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our award-winning technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. For more information, please visit www.redlion.net. Red Lion is a Spectris company.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Red Lion manufacturer:

Other Similar products are found below:

CUB5B000 IFMA0035 LD400400 MLPS2000 508TX-A PAXLVA00 ZBH06002 CUB4CL20 CUB4LP40 SLX-8ES-1 TORF1000
WF1000BF EB-PD-24V-1 FANWAND721SMA FCOPPER-SFP-100 NTSFP-LX-10 PSDR060W 308TX 508TX CUB5SNK0 PAXLCR00
CRM000CMCMOD0000 CRM000CMJ1939000 CR10000700000210 CR10001000000210 CR30000400000310 CR30000700000420
CR30001000000420 CRM000CMCAN00000 PAXDP000 NT24K-16M12-POE NT24K-16M12-POE-PT NT24K-16M12-POE-R NT24K16M12-POE-R-PT NT24K-16M12-PT NT24K-16M12-R NT24K-16M12-R-PT IAMA6262 CUB5PB00 FMFIBER-SFP-4K PAXLA000
LSAHC001 CBLGEN01 CUB5USB0 516TX 1002MC-SX 102MCE-SC-15 105FX-ST 106FX2-ST 304TX