

N-TRON 608MFX Ring Management Industrial Ethernet Switch

Built to Operate Reliably in Industrial Applications

The N-TRON™ 608MFX Industrial Ethernet Switch offers outstanding performance, and ease of use. It is ideally suited for connecting Ethernet enabled industrial and/or security equipment requiring full SNMP management functions. The 608MFX also provides redundant ring management.

Product Features

- Full IEEE 802.3 Compliance
- Full SNMP Management
- Remote Switch Management (RMON)
- Counter Rotating Packet Fiber Ring Management.
- Two 100 BaseFX Fiber Optic Ring Ports
- Six 10/100 BaseTX RJ-45 Ports
- Auto Sensing 10/100BaseTX, Duplex, and MDIX
- Store-and-forward Technology
- Up to 1.6 Gb/s Throughput
- Programmable MAC level Security
- Remote Switch Monitoring
- Event Trapping
- Port Mirroring
- QoS Quality of Service
- Redundant Power Inputs (18-32 VDC)
- 0° to 60°C Operating Temperature
- Rugged Industrial DIN-Rail Enclosure

Fiber Ring Management

The 608MFX redundancy manager performs high speed ring management in the industrial control environment. This switching system can be used in conjunction with other N-TRON switches in order to create the most cost effective network ring solution available for industrial applications. Two 608MFX units can be coupled via their standby ports to provide dual rings for complete hardware and fiber ring redundancy for applications requiring this level of fault tolerant operation.

Industrial Packaging and Specifications

The N-TRON 608MFX is designed to operate in industrial environments. It is housed in a rugged steel enclosure that can be DIN-RAIL or Panel Mounted. Optional kits are available for rackmount applications. It has extended industrial specifications and features to meet or exceed the specifications of the equipment it is connecting. These include extended temperature ratings, extended shock and vibration specs, redundant power inputs, and high MTBF (greater than 1M hours).



Ease of Use

The N-TRON 608MFX is a fully managed switch which can be easily configured using a direct terminal connection, Telnet, or standard SNMP browsers. Management functions include filtering, port mirroring, event trapping, packet prioritization (QoS), and port parameterization settings. A simple toggle switch enables ring management on the 608MFX with no other setup required. The 608MFX provides remote monitoring (RMON) of port data. Six RJ-45 10/100BaseTX ports are auto sensing and auto configuring. Each port is automatically negotiated for maximum speed and performance by default. LED's are provided to display the link status and activity of each port as well as power on/off status.

Performance

The N-TRON 608MFX uses "state of the art" IEEE 802.3 Fast Ethernet 10/100BaseTX switching technology. This eliminates network collisions and increases network determinism. 7,000 MAC addresses are supported enabling sophisticated and complex network architectures. A high speed processor and backplane allows full wire speed capability on all ports simultaneously.

High Quality and Reliability

N-TRON is a worldwide leader in Industrial Networking technology and offers proven reliability and quality.

608MFX Ring Management Switch Ordering Information

| | |
|---------------|---|
| 608MFX-ST | Six 10/100BaseTX Ports and Two 100BaseFX Multimode Fiber Ring Ports (ST Connectors - 2 km fiber length) |
| 608MFXE-ST-15 | Six 10/100BaseTX Ports and Two 100BaseFX Singlemode Fiber Ring Ports (ST Connectors - 15 km fiber length) |
| 608MFXE-ST-40 | Six 10/100BaseTX Ports and Two 100BaseFX Singlemode Fiber Ring Ports (ST Connectors - 40 km fiber length) |
| 608MFXE-ST-80 | Six 10/100BaseTX Ports and Two 100BaseFX Singlemode Fiber Ring Ports (ST Connectors - 80 km fiber length) |

Specifications

Switch Properties

| | |
|----------------------------|------------------|
| Number of MAC Addresses | 7,000 |
| Aging Time | Programmable |
| Latency | 4 μ s |
| Switching Method | Store & Forward |
| Ring Redundancy Resolution | Less Than 300 ms |

Physical

| | | |
|---------|----------|------------|
| Height: | 5.50" | (13.65 cm) |
| Width: | 8.55" | (21.70 cm) |
| Depth: | 2.75" | (6.90 cm) |
| Weight: | 3.08 lbs | (1.40 kg) |

Electrical

| | |
|----------------|------------------------------|
| Input Voltage: | 18-32 VDC (Redundant Inputs) |
| Input Current: | 1000mA@24V |
| Inrush: | 10.5Amp/7ms@24V |

Environmental

| | |
|------------------------|---------------------------------|
| Operating Temperature: | 0°C to 60°C 32°F to 140°F |
| Storage Temperature: | -40°C to 80°C -40°F to 176°F |
| Operating Humidity: | 10% to 95% (Non Condensing) |
| Operating Altitude: | 0 to 10,000 ft. |

Shock and Vibration (bulkead mounted)

| | |
|------------|----------------------|
| Shock: | 200g @ 10ms |
| Vibration: | 1g, 10-500Hz, 3 axis |
| Seismic: | 20g, 5-200Hz, 15s |

Reliability

MTBF: Greater Than 1M Hours (measured)

Network Media

| | |
|-------------|---------------------|
| 10BaseT: | >Cat3 Cable |
| 100BaseTX: | >Cat5 Cable |
| 100BaseFX | |
| Multimode: | 50-62.5/125 μ m |
| Singlemode: | 7-9/125 μ m |

Fiber Transceiver Characteristics

| | | | | |
|--------------------|--------|--------|--------|--------|
| Fiber Length | 2km* | 15km** | 40km** | 80km** |
| TX Power Min | -19dBm | -15dBm | -5dBm | -5dBm |
| RX Sensitivity Max | -32dBm | -29dBm | -34dBm | -34dBm |
| Wavelength | 1310nm | 1310nm | 1310nm | 1550nm |

* Multimode Fiber Optic Cable
** Singlemode Fiber Optic Cable

Recommended Wiring Clearance

| | |
|---------|---------------|
| Bottom: | 4" (10.16 cm) |
| Top: | 1" (2.54 cm) |

Emissions and Safety Approvals

FCC Part 15 Class A, CE, UL Listed, CSA, CLASS I, DIV 2, GROUPS A,B,C,D,T4

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