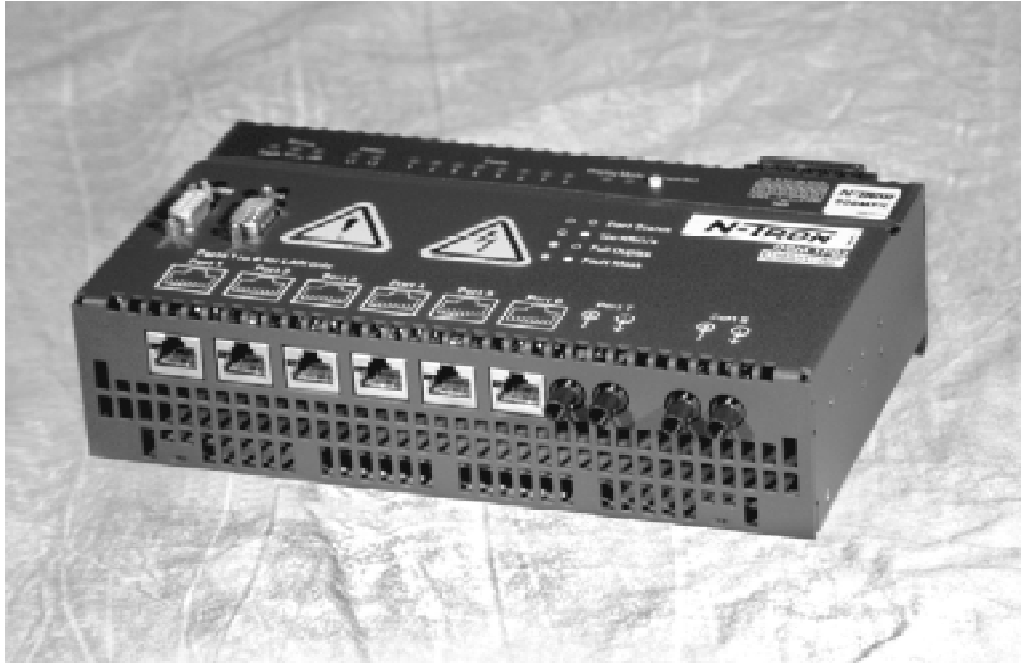


N-TRON 608MFX Ring Management Industrial Ethernet Switch

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.

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 RJ45 10/100BASE-T ports are autosensing 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 10/100BASE-T 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	Six 10/100BASE-T Ports and Two Multimode Fiber Ring Ports (ST Connectors - 2 km fiber length)
608MFXE-15	Six 10/100BASE-T Ports and 100BASE-FX Singlemode Fiber Ring Ports (ST Connectors - 15 km fiber length)
608MFXE-40	Six 10/100BASE-T Ports and 100BASE-FX Singlemode Fiber Ring Ports (ST Connectors - 40 km fiber length)
608MFXE-80	Six 10/100BASE-T Ports and 100BASE-FX 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

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

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

Reliability

MTBF: Greater Than 1M Hours (measured)

Network Media

10BASE-T:	Category 3,4,5 Cable
100BASE-T:	Category 5 Cable
100BASE-FX:	62.5/125 μ m Fiber @ 1300nm or 50/125 μ m Fiber @ 1300nm

Fiber Transceiver Characteristics

(multimode/singlemode - 15km)	
Transmit Power:	-17/-3dBm (typical)
Receiver Sensitivity:	-33/-35dBm (typical)

Recommended Wiring Clearance:

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

Emissions and Safety Approvals:

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

Contact Information

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