

The *202MC* is a 10/100BaseT to 100BaseFX Industrial Media Converter. It is housed in a ruggedized DIN-RAIL enclosure, and is designed for use in industrial data acquisition, control, and Ethernet I/O applications.

PRODUCT FEATURES

- Converts 10/100BaseT to 100BaseFX
- Full IEEE 802.3 & 100BaseFX Compliance
- Extended Environmental Specifications
- Support for Full/Half Duplex Operation
- LED Link/Activity Status Indication
- Auto Sensing Speed and Flow Control
- Plug and Play
- Compact, Space Saving Package
- Rugged Industrial DIN-RAIL Enclosure
- Redundant Power Inputs (10-30 VDC)

PRODUCT OVERVIEW

The N-TRON™ *202MC* Industrial Media Converter is designed to allow the connection of 10/100BaseT Ethernet devices to your fiber cabling infrastructure.

The *202MC* provides 1 RJ-45 auto-sensing 10/100BaseT port and 1 ST 100BaseFX port. All ports are full/half duplex capable, using "state of the art" Ethernet switching technology. The *202MC* auto-negotiates the speed and flow control capabilities of the UTP port connection, and configures itself automatically. The 100BaseFX fiber optic port utilizes an industry standard ST connector and is user configurable for full or half duplex operation. Both multi-mode and singlemode fiber models are available.

Since the *202MC* uses switching technology, unlike most media converters, you can connect your 10Mbps devices today and upgrade them to 100Mbps tomorrow. The switching fabric simply scales up or down automatically to match your specific network environment.



The *202MC* supports up to 4,000 MAC addresses, thus enabling these products to support extremely sophisticated and complex network architectures.

The N-TRON *202MC* is well suited to convert 10/100BaseT industrial devices to fiber. This will allow you to take advantage of your fiber based infrastructure with its inherent advantages which include increased noise immunity and longer cable lengths than a copper based system can support.

The *202MC* has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience the media converter can now be DIN-RAIL mounted alongside Ethernet I/O or other Industrial Equipment.

A unique feature of the packaging allows horizontal or vertical mounting on the rail, conserving space in the most critical dimension. In addition, as with other DIN-RAIL devices, the *202MC* can be panel mounted.

To increase reliability, the *202MC* contains redundant power inputs. LED's are provided to display the link status and activity of each port, as well as power on/off status and any controller detected errors.

BENEFITS

Industrial Media Converter

- Converts 10/100BaseT to 100BaseFX
- High Reliability/Availability
- Extended Environmental Specifications
- Ruggedized DIN-RAIL Enclosure
- High Performance
- High MTBF - >1M Hours (measured)

Ease of Use

- Plug & Play Operation
- Auto-sensing 10/100BaseT
- Auto-sensing Full/Half Duplex
- Compact DIN-RAIL Package

Increased Performance

- Full Wire Speed Capable
- 100BaseFX Fiber Uplink
- Full Duplex Capable
- Eliminates Network Collisions
- Increases Network Determinism

Contact Information

N-TRON Corp.

578 Azalea Road, Suite 105

Mobile, AL 36609

TEL: (251) 666-9878

FAX: (251) 666-9833

URL: <http://www.n-tron.com>

Ordering Information:

202MC-XX 100BaseFX multimode fiber

202MCE-XX-YY 100BaseFX singlemode fiber

Where "XX" is: ST for ST style fiber connector
SC for SC style fiber connector

Where "YY" is: 15 for 15km max. fiber segment length
40 for 40km max. fiber segment length
80 for 80km max. fiber segment length

SPECIFICATIONS

Physical

Height: 2.3" (5.84 cm)
Width: 5.1" (12.95 cm)
Depth: 3.1" (7.87 cm)
Weight: 1.25 lbs (0.6 kg)
(note: can be mounted horizontally or vertically)

Electrical

Input Voltage: 10-30 VDC
Input Current: 0.25A@24V

Environmental

Operating Temperature: 0°C to 70°C
32°F to 158°F
Storage Temperature: -20°C to 85°C
-4°F to 185°F
Operating Humidity: 10% to 90%
(Non Condensing)
Operating Altitude: 0 to 10,000 ft.

Network Media

10BaseT: Category 3,4,5 Cable
100BaseT: Category 5 Cable
100BaseFX: 62.5/125µm Fiber @ 1300nm
or 50/125µm Fiber @ 1300nm

Fiber Transceiver Characteristics

(multimode/singlemode - 15km)
Transmit Power: -17/-3dBm (typical)
Receiver Sensitivity: -33/-35dBm (typical)
Segment Length: up to 2/15km
(40km and 80km models also available)

Connectors

10/100BaseT: One (1) RJ-45 UTP ports
100BaseFX: One (1) ST or SC Duplex Port

Recommended Wiring Clearance:

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

Emissions and Safety Approvals:

FCC Part 15 Class A, CE
CLASS I, DIV 2 (Zone 2), GROUPS A,B,C,D