ROCKETLINX MC7001

Industrial Ethernet to Fiber Media Converter

HIGHTLIGHTS

- One 10/100Base-TX port to One 100Base-FX port Ethernet to fiber media converter
- Dual forwarding modes switching and pure converter
- Supports 1.5KV Hi-PoT isolation protection
- Supports auto MDI/MDI-X, auto negotiation
- Supports Multi-mode 2KM, Single-mode 30KM link distance
- Auto link loss forwarding (LLF) for fault detection
- Extreme low data forwarding latency -1.6 x 10^-6 Sec
- Wide range DC or AC power input with DC polarity correction
- Compact aluminum case with IP-31 grade protection
- -10° to 70° C extended operating temperature



Part Numbers Single-Mode: 32020-3 Multi-Mode: 32021-0

Product Description

The RocketLinx MC7001 is an Ethernet to fiber media converter designed to excel in harsh industrial environments requiring a rugged, full-featured DIN rail mount converter in a small form factor IP31-rated housing. The MC7001 converts 10/100Base-TX Ethernet to 100Base-FX fiber with models available supporting single-mode and multi-mode fiber connections.

Simple DIP switch configuration, low latency performance, a wide operating temperature range of -10° to 70°C, and advanced features including pure converter and switch modes combine to make the RocketLinx MC7001 a superior choice for applications requiring Ethernet to fiber conversion.



SPECIFICATIONS

HARDWARE **Bus Interface**

Enclosure

Installation Method LED Indicators

Dimensions **Product Weight**

ELECTRICAL SPECIFICATIONS

10/100BASE-TX,

Aluminum Metal Case

POWER, RJ45 Port Link/Activity, Fiber

Port Link/Activity

4.0" x 1.2" x 2.8"

100BASE-FX IP-31 Grade

DIN Rail

0.36 lb

Device DC Input Voltage 18-32 VDC AC Input Voltage 18-27 VAC, 47-63Hz **Current Consumption** +24VDC 145 mA Power Consumption (max) 3 5W Power Connector Type (1) 2-Pin Screw Terminal Block **Reverse Polarity Protection** Protection against power input reversal

ENVIRONMENTAL SPECIFICATIONS

Air temperature		
System On	-10 to 70° C	
System Off	-40 to 80° C	
Operating Humidity (non-condensing)		
0% to 95%		
Heat Output	11.9 BTU/Hr	
Mean time between failures	57.9 years	

ETHERNET SPECIFICATIONS

Connector Type (1) RJ45 Ethernet Cable Type CAT-3, CAT-4, CAT-5 (UTP or STP) Standard 10/100BASE-TX Auto MDI/MDI-X, Auto negotiation Link Distance 100 Meters **Forwarding Modes** Pure Converter Mode Directly transfers Ethernet packets without frame-checking Switch Transfer Mode Forwards Ethernet packets after received completely and after frame-checking. 64 to 1522 bytes supported Link Loss Forward Link loss forward capable for fault detection

OPTICAL FIBER SPECIFICATIONS

Fiber Mode Single-mode or Multi-mode Connector Type (1) Duplex SC Standard IEEE802.3 100BASE-FX Fiber Cable Type Single-mode 8/125um, 9/125um or 10/125um Multi-mode 50/125um or 62.5/125um Link Distance (Max) Single-mode 30KM Multi-mode 2KM Wavelength 1310nm Transmit Power (Min) -15 dBM Single-mode Multi-mode -20 dBM

Transmit Power (Max)	
Single-mode	-8 dBM
Multi-mode	-14 dBM
Receive Sensitivity (Min)	0 dBM
Receive Sensitivity (Max)	
Single-mode	-34 dBM
Multi-mode	-31 dBM
Link Budget	
Single-mode	19 dBM
Multi-mode	11 dBM
Supported Communication	
100Base-FX Full-Duplex or	Half-Duplex

REGULATORY APPROVALS

Fmissions European Standard EN55022 CISPR 22 FCC Part 15 Subpart B Class A limit Immunity European Standard EN55024: IEC 1000-4-2/EN61000-4-2: ESD IEC 1000-4-3/EN61000-4-3: RF IEC 1000-4-4/EN61000-4-4: Fast Transient IEC 1000-4-5/EN61000-4-5: Surge IEC 1000-4-6/EN61000-4-6: Conducted Disturbance IEC 1000-4-8/EN61000-4-8: Magnetic field IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations Other European Standard: 2002/95/EC Directive (RoHS) **Regulatory Approvals**

EXPORT INFORMATION

Packaged Shipping Weight Package Dimensions UPC Code

0.60 lb 6.00" x 2.50" x 5.00"

Single-mode Multi-mode ECCN Schedule B Number 7-56727-32020-3 7-56727-32021-0 5A991 8517.62.0050



APPLICATIONS

- Traffic and Transportation
- Industrial Automation
- Building Automation
- Power Generation
- Material Handling
- Military

ORDERING INFORMATION

32020-3 RocketLinx MC7001 Single-Mode 32021-0 RocketLinx MC7001 Multi-Mode

RECOMMENDED ACCESSORIES

32100-2 Power Supply PS1020 Universal (24V, 24W, Din Rail) 32101-9 Power Supply PS1060 Universal (24V, 60W, Din Rail) 32102-6 Power Supply PS1100 Universal (24V, 100W, Din Rail)

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

Sales Support +1.763.957.6000 sales@comtrol.com

Technical Support +1.763.957.6000 www.comtrol.com/support

Email, FTP and Web Support info@comtrol.com ftp.comtrol.com www.comtrol.com