



Raven™ Series Advanced Media & Rate Converters

MIL-RC3000 and MIL-RC6000 Series



- 10/100Mbps to 100Mbps, or
- 100/1000Mbps to 1000Mbps Ethernet
- Extends Network Distances up to 60 km
- Bi-Directional WDM Single Fiber Models
- Chassis-based or Standalone Models
- Auto MDI/MDX, Auto-Negotiation, LinkSentry™
- SNMP, Console and Web-based Management

The Raven Series of Converters offers connectivity solutions for a broad range of environments. Whether connecting two remote locations, or solving a difficult wiring closet issue, the Raven Series has a product to meet your needs. The standalone converters are ideal for remote locations requiring a single, cost effective fiber link. These converters may be consolidated into a 19 inch rack system, allowing for utilization of a common product in the main or intermediate distribution frame and at the remote location. For those needing visibility into how their network is operating, a managed media conversion system is available.

The Raven Series is designed with ease of use in mind. The UTP port will auto-detect the cabling type (cross over or straight through), the polarity of the pins, the speed of the port and the mode of the port without any user intervention. No more concerns about what type of device the converter is connecting, whether hub or server. The broad range of media for the fiber port makes for optimal flexibility in designing the network, and upgrading the network in the future.

This product has been designed with diagnostic functions as well. The LinkSentry™ feature allows for passing through physical layer failures from one media to the other. This allows for a higher reliability in your network by making all components aware of network failures as they occur. The managed system takes this further by sending traps when link failures are seen on the ports.

The ease of use, flexibility in network design, Advanced diagnostic capabilities and management features make the Raven series of converters the optimal conversion product for your network.



MiLAN Technology
1329 Moffett Park Drive
Sunnyvale, CA 94089
1-800-466-4526
www.milan.com

Raven™ Series Advanced Media & Rate Converters

MIL-RC3000 and MIL-RC6000 Series

100BaseFX Fiber Features

MAC Address Table: 1024 addresses
Forwarding and Filtering Rate:
148,880pps for 100Mbps; 14,880pps for 10Mbps
Standalone Latency: 18100ns (64 byte packet,100Mbps full duplex)
Modular Latency: 20785ns (64 byte packet,100Mbps full duplex)

100BaseFX Fiber Port Characteristics

Multi-mode

Speed: 100BASE-FX Multi-mode (2km)
Transmitter: Wavelength 1310nm
Output Power (50/125µm): -23.5dBm
Output Power (62.5/125µm): -20dBm
Receiver: Wavelength 1310nm;
Sensitivity: -30dBm

Single-mode

Speed: 100BASE-FX Single mode (15km)
Transmitter: Wavelength 1310nm
Output Power (8 or 9/125µm): -20dBm
Receiver: Wavelength 1310nm
Sensitivity: -32dBm

Speed: 100BASE-FX Single mode (30km)
Transmitter: Wavelength 1310nm
Output Power (8 or 9/125µm): -15dBm
Receiver: Wavelength 1310nm
Sensitivity: -34dBm

Speed: 100BASE-FX Single mode (60km)
Transmitter: Wavelength 1310nm
Output Power (8 or 9/125µm): -5dBm
Receiver: Wavelength 1310nm
Sensitivity: -35dBm

WDM

Speed: 100BASE-FX Single mode (15km)
Transmitter: Wavelength 1310nm or 1550nm
Output Power (8 or 9/125µm): -8dBm
Receiver: Wavelength 1550nm or 1310nm
Sensitivity: -31dBm

Gigabit Fiber Features

MAC Address Table: 1024 addresses
Forwarding and Filtering Rate:
1,488,800pps for 1000Mbps, 148,880pps for 100Mbps; 14,880pps for 10Mbps
Standalone Latency: 6270ns (64 byte packet,100Mbps full duplex)
Modular Latency: 5140ns (64 byte packet,100Mbps full duplex)

Gigabit Fiber Port Characteristics

Speed: 1000BASE-SX Multi-mode (220m)
Transmitter: Wavelength 850nm
Output Power (50 or 62.5/125µm): -9.5dBm
Receiver: Wavelength 850nm;
Sensitivity: -17dBm

Speed: 1000BASE-LX Single mode (5km)

Transmitter: Wavelength 1310nm
Output Power (9/125µm): -9.5dBm
Receiver: Wavelength 1310nm
Sensitivity: -20dBm

Physical Characteristics

MIL-RC311X and MIL-RC6113XX Series - Standalone

Dimensions: 84.14 mm x 120.65 mm x 25.4 mm (3.31" W x 4.75" D x 1.0" H)
Weight: .75 lbs. (.34 kg)

MIL-RC341X and MIL-RC6413XX Series - Modular

Dimensions: 158.75 mm x 68.26 mm x 23.81 mm (2.69" W x 6.25" L x .94" H)
Weight: .35 lbs (.1575Kg)

Operating Temperature: 0 to 50..C (32..F to 122..F)

Storage Temperature: - 25..C to 70..C (-13..F to 158..F)

Operating Humidity: 10% to 95% (non-condensing)

Standalone Power Supply Adapters:

Input Current: 1A

Input Voltage: 100VAC Country Specific @ 60Hz, 240VAC
Country Specific @ 50Hz

Output Voltage: 5V DC @ 700mA

Power Consumption: 14 Watts maximum

Power Adapters available for the MIL-RC311x Series: North America (US),
Continental Europe (EU), United Kingdom (UK), Certified for country specific
Safety requirements (cUL, TUV)

Functional Standards: IEEE 802.3, 802.3u, 802.3x

Emissions: FCC Class A, *CSA Class A, CE Mark,*
EN55022 Class B, EN55024

Ordering Information

Raven Converters - Standalone

MIL-RC3112: 10/100BASE-TX / 100BASE-FX ST MMF 2km
MIL-RC3113: 10/100BASE-TX / 100BASE-FX SC MMF 2km
MIL-RC3113-15: 10/100BASE-TX / 100BASE-FX SC SMF 15km
MIL-RC3113-30: 10/100BASE-TX / 100BASE-FX SC SMF 30km
MIL-RC3113-60: 10/100BASE-TX / 100BASE-FX SC SMF 60km
MIL-RC31W13: 10/100BASE-TX / 100BASE-FX SC SMF TX 1360nm WDM
MIL-RC31W15: 10/100BASE-TX / 100BASE-FX SC SMF TX 1550nm WDM
MIL-RC6113SX: 100/1000BASE-TX / 1000BASE-SX SC MMF 220m
MIL-RC6113LX: 100/1000BASE-TX / 1000BASE-LX SC SMF 5km

Raven Converters- Modules

MIL-RC3412: 10/100BASE-TX / 100BASE-FX ST MMF 2km
MIL-RC3413: 10/100BASE-TX / 100BASE-FX SC MMF 2km
MIL-RC3413-15: 10/100BASE-TX / 100BASE-FX SC SMF 15km
MIL-RC3413-30: 10/100BASE-TX / 100BASE-FX SC SMF 30km
MIL-RC3413-60: 10/100BASE-TX / 100BASE-FX SC SMF 60km
MIL-RC34W13: 10/100BASE-TX / 100BASE-FX SC SMF TX 1360nm WDM
MIL-RC34W15: 10/100BASE-TX / 100BASE-FX SC SMF TX 1550nm WDM
MIL-RC6413SX: 100/1000BASE-TX / 1000BASE-SX SC MMF 220m
MIL-RC6413LX: 100/1000BASE-TX / 1000BASE-LX SC SMF 5km

Raven Converters- Chassis (See Chassis Datasheet for Detailed specifications)

MIL-RCM16: 16 slot chassis with management module for Raven Modules
MIL-RCS10: 10 slot chassis for standalone Raven Converters

Warranty

Comprehensive 5 years

Milan Technology reserves the right to change specifications or other product information without notice. This publication could include technical inaccuracies or typographical errors. Milan Technology provides this publication "as is" without warranty of any kind, either expressed or implied, including implied warranties of merchantability or fitness for a particular purpose. If your jurisdiction does not allow disclaimer of expressed or implied warranties in certain transactions, this disclaimer may not be applicable.

Milan Technology, the Milan Technology logo are trademarks of CSI. All other trademarks are the property of their respective holders.

© Copyright 2004 MiLAN Technology, Inc.



MiLAN Technology
1329 Moffett Park Drive
Sunnyvale, CA 94089
1-800-466-4526
www.milan.com
Rev D.