

Raven™ Series Media Converters

MIL-RC311x-xx and MIL-RC6113xx-V2 Series



- 10/100Mbps to 100Mbps, or
- 10/100/1000Mbps to 1000Mbps Ethernet
- Bi-Directional WDM Single Fiber Models
- Auto MDI/MDX, Auto-Negotiation
- LinkSentry™
- SFP Modular Supported

Product Overview

The Raven™ Series are ideal stand-alone converters offering a single, cost effective copper to fiber conversion solution. 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 ease of use, cost effective, flexibility in network design, diagnostic capabilities make the Raven series of converters the optimal conversion product for your network.

Additional Features:

- Link Lost Forwarding Enable/Disable
- Switch Converter mode / Pure converter mode
- Jumbo Frame
 - 10kbyte (Pure converter mode) /
 - 2kbyte (Switch converter mode)



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Raven™ Series Media Converters

MIL-RC311x-xx and MIL-RC6113xx-V2 Series - Stand-Alone

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)

100BaseFX Fiber Port Characteristics

Multi-mode

Speed: 100BASE-FX Multi-mode (2km)
Transmitter: Wavelength 1310nm
Output Power: -18dBm
Receiver: Wavelength 1310nm;
Sensitivity: -30dBm

Single-mode

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

WDM

Speed: 100BASE-FX Single mode (20km)
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,1000Mbps full duplex)

Gigabit Fiber Port Characteristics

Speed: 1000BASE-SX Multi-mode (550m)
Transmitter: Wavelength 850nm
Output Power (50 or 62.5/125µm): -9.5dBm
Receiver: Wavelength 850nm;
Sensitivity: -12.5dBm

Speed: 1000BASE-LX Single mode (10km)
Transmitter: Wavelength 1310nm
Output Power (9/125µm): -9.5dBm
Receiver: Wavelength 1310nm
Sensitivity: -20dBm

Physical Characteristics

MIL-RC311X-xx and MIL-RC6113xx-V2 Series
Dimensions: Width: 3.31" [84.14mm]
Depth: 4.75" [120.65mm]
Height: 1.0" [25.4mm]
Weight: .75 lbs. (0.34 kg)
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)

Stand-Alone Power Supply Adapters

Input Current: 1A
Input Voltage: 100VAC Country Specific @ 60Hz, 240VAC
Country Specific @ 50Hz
Output Voltage: 9V DC @ 700mA
Power Consumption: 14 Watts maximum
Power Adapters available for the MIL-RC311x-xx
and MIL-RC6113xx-V2 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
Compliance: FCC Class A, CSA Class A, CE Mark, EN55022 Class B,
EN55024

Ordering Information

Raven Stand-Alone Converters

MIL-RC3112: 10/100BASE-TX / 100BASE-FX ST MMF 2km

MIL-RC3113: 10/100BASE-TX / 100BASE-FX SC MMF 2km

MIL-RC3113-30: 10/100BASE-TX / 100BASE-FX SC SMF 30km

MIL-RC31W13: 10/100BASE-TX / 100BASE-FX SC SMF 1310/1550 WDM

MIL-RC31W15: 10/100BASE-TX / 100BASE-FX SC SMF 1550/1310 WDM

MIL-RC6113SX-V2: 10/100/1000BASE-TX / 1000BASE-SX SC MMF

[50/125um fiber: 550m, 62.5/125um: 220m]

MIL-RC6113LX-V2: 10/100/1000BASE-TX / 1000BASE-LX SC SMF 10km

MIL-RC6113GB-V2: 10/100/1000BASE-TX / 1000BASE-X SFP Slot (empty)

Mounting Options

MIL-RCS10A: 10 Slot chassis for Raven Converters, AC power

MIL-RCS10D: 10 Slot chassis for Raven Converters, DC power

Technical Support & Warranty

Free technical support and advanced warranty support for 1 year. Including free telephone support, 24-hour support via web and ftp.