



Myriad & IME Solution Bundles

Myriad Rack Mount Modem Bank



IME: Industrial Modem Enclosure & RM1U Bracket



Reduce Spares Count by Using Interchangeable Card Nest Modems at Central and Remote Sites!

Myriad Rack and IME (Industrial Modem Enclosure)

Support

MD9612, MD202T, MD14.4L,

HXII56RM and MD14.4

www.raymar-telenetics.com



MYRIAD RACK MOUNT MODEM BANKS AC/DC Powered Substation Hardened



KEY FEATURES

- SCADA environment applications
- Point-to-point or multi-drop applications
- Fits any standard 19" electronics rack
- Supports up to 18 Rack Mount Cards

SUPERIOR VALUE

The **Raymar-Telenetics Myriad** and **IME (Industrial Modem Enclosure)** industrial modem nests offers superior value over a wide range of SCADA, point-to-point, and multi-drop applications. The **Myriad** Nests feature modular, redundant power supplies and the ability to mount to a 19 cabinet. The **IME enclosure** features a modular, AC/DC power. The **Raymar-Telenetics** IME supports the **Raymar-Telenetics** MD9612 and MD202T and HXII56RM modems.

IME: Industrial Modem Enclosure & RM1U Mounting Bracket



KEY FEATURES

- SCADA environment applications
- Point-to-point or multi-drop applications
- Fits any standard 19" electronics rack
- Supports up to 2 IMEs

Raymar-Telenetics FlashPoll • MD9612FP INDUSTRIAL MODEM

KEY FEATURES

- Designed to optimize communication links where high speed or an unlimited number of drops is necessary.
- Dual Mode: 9600/4800 bps and FSK, Bell202T 0-1800bps
- Fast train modem equalizer with 23 msec RTS/CTS delay
- DSP design with automatic adaptive equalizer
- Leased line interface protected with heavy-duty surge protection

PERFORMANCE & APPLICATION

The **Raymar-Telenetics** FlashPoll MD9612RM is a dual mode, full-featured 9600 Fast Poll and Bell 202T leased line modem with the fastest training time in the industry: 23 msec RTS/CTS delay. Ideal for utility and industrial automation multi-drop applications, including SCADA systems, traffic automation, and oil & gas automation projects where an unlimited number of drops is desirable.

The MD9612is designed for 4-wire, full-duplex, or 2-wire, half-duplex operation over a voice-band leased line or private line. The modem design utilizes the latest digital-signal processing (DSP) technology to achieve high performance.





HXII56RM (Rack-Mount)

KEY FEATURES

- Call back security
- Dial up phone lines up to 56Kbps
- 2 Wire leased line
- HX Telco line surge protection
- -40°C to +85°C Operating Temp
- DB 25pin data connector
- Global Compliance
- Telecom approved in over 50 countries
- V.44 & V.42bis data compression
- V.42 Error correction
- Intelligent DAA detects line status
- Low power/sleep mode
- Fast POS V.22bis Fast connect
- Extended AT Commands & NVRAM



DESCRIPTION

The **Raymar-Telenetics** Hidex II V.92 Industrial Grade Modem is the most versatile model for dial up or leased analog telephone line interconnect. The Hidex HXII56 offers up to 56K dial up. The stand-alone is temperature tested. They are both rugged modems designed for Industrial applications. Directly connected to RTU's, traffic controllers, variable message signs or any number of other applications, they communicate at 300bps to 56Kbps over analog telephone lines. All HX models have high voltage surge protection on the telephone lines. The AC power converter on the standalone delivers 5VDC from 100 to 120VAC, 50-60Hz with World Wide safety approvals. DC version available, and a wide voltage range of internal DC power models are optional.

Raymar-Telenetics MD202T Modem

KEY FEATURES

- 2-wire half duplex or 4-wire full duplex private line operation
- 0 to 1200 bps data rate over unconditional lines and 1800 over high quality lines
- Anti-streaming
- Phase coherent, frequency shift keyed (FSK) modulation
- LED indicators
- Front panel switch function selector
- Integral test features



PERFORMANCE & APPLICATION

The MD202 operates over leased or dedicated, loaded or unloaded lines equal to or better than the ITU (formerly CCITT) M.1020/1025 or the Bell 3002 leased line services. It operates over point-to-point or multi-point polled systems and operates in full or half-duplex over 4-wire or 2-wire circuits.

SUPERIOR ERROR DETECTION CAPABILITIES

The MD202T employs circuitry to prevent data and carrier detect errors over noisy lines. In multi-drop systems it is very common to have noise spikes and other harmful high frequency components caused by carrier turn-offs from other modems on the same line. The modem uses a combination of soft-carrier generation and soft-carrier detection in conjunction with a signal to noise ration (SNR) detector to eliminate errors caused by line noise. The MD202T's anti-streaming capability prevents a modem from remaining in the transmit mode when the modem is not actively transmitting data. In addition, the MD202T allows users to verify transmitted and received data via the diagnostic feature.



Ordering Information	
Part Number	Description
18 Slot Myriad Chassis (not Populated)	
MDR-00	Chassis, 18 Slot, Myriad, Redundant 9-36VDC PSU
MDR-01	Chassis, 18 Slot, Myriad, Redundant 38-56VDC PSU
MDR-02	Chassis, 18 Slot, Myriad, Redundant 90-140VAC PSU
MDR-03	Chassis, 18 Slot, Myriad, Redundant 175-265VAC PSU
IME Enclosure and IME Bundle	
IME	S/A Enclosure - 48 - 240 VAC/DC
IME-LV	S/A Enclosure - 9 - 36 VDC
IME-9612FP	FP,1200/4800/9600,LL,B202T&V.23,PP-MP,MYRIAD, 48-240VAC/DC
IME-9612-LV	FP,1200/4800/9600,LL,B202T&V.23,PP-MP,MYRIAD, 9-36VDC
IME-202T	MYRIAD,BELL202T,1200BPS,W/LOOP BACK, 48-240VAC/DC
IME-202T-LV	MYRIAD,BELL202T,1200BPS,W/LOOP BACK, 9-36VDC
IME-HXII56RM	V.92, SERIAL 56K, -40 +85C, +NVRAM, MYRIAD, 48-240VAC/DC
IME-HXII56RM-LV	V.92, SERIAL 56K, -40 +85C, +NVRAM, MYRIAD, 9-36VDC
IME-14.4L	MYRIAD,V.32BIS,14.4KBPS,V.22,BELL212A,BELL103,LEASED LINE, 48-240VAC/DC
IME-14.4L-LV	MYRIAD,V.32BIS,14.4KBPS,V.22,BELL212A,BELL103,L/L, 9-36VDC
IME-14.4	MYRIAD,V.32BIS,14.4KBPS,V.22,BELL212A,BELL103,DIAL-UP, 48-240VAC/DC
IME-14.4-LV	MYRIAD,V.32BIS,14.4KBPS,V.22,BELL212A,BELL103,DIAL-UP, 9-36V/DC
Accessories	
IME-DIN	UNIVERSAL DIN CLIP, FLAT OR SIDE MOUNT OPTION
IME-WMI	UNIVERSAL WALL MOUNT PLATE
IME-RM1U	UNIVERSAL 19", 2 UNIT 1U SHELF
MD Modem Cards Only	
MD2.4	V.22bis, V.22 Bell 212A, Bell 103, Dial Up
MD14.4	V.32bis, V.32, Plus Above, Dial Up
MD14.4L	V.32bis, V.32, Plus Above, Leased Line
MD202T	Bell202T, Leased Line
MDV23	V.23, Leased Line
MD9612FP	Bell202T, Raymar-Telenetics Proprietary, Leased Line
IGM-HXII56RM	V.92, V.34, V.32Bis, V.22 Bis, Bell 212A, Bell 103, V.21 & V.23, Dial / 2w Leased line

RAYMAR INFORMATION TECHNOLOGY, INC., 7325 Roseville Road, Sacramento, CA 95842 USA
 PHONE+1-916-783-1951 FAX +1-916-783-1952 1-800-695-1951 sales@raymarinc.com www.raymarinc.com

Tech Support Hotline 1-800-747-1522

