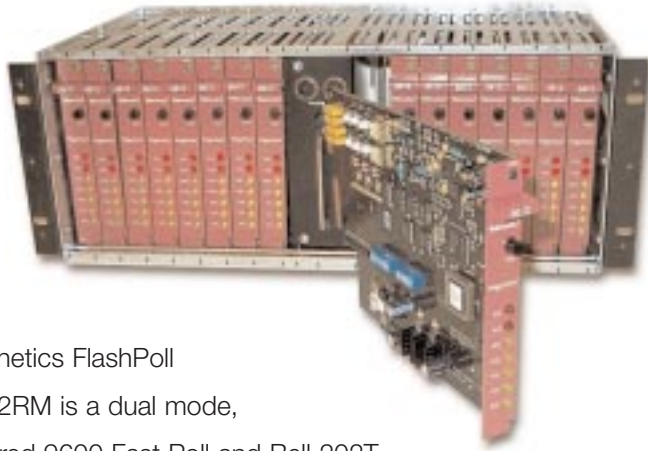


FlashPoll™

DSP9612RM



The Telenetics FlashPoll DSP9612RM is a dual mode, full-featured 9600 Fast Poll and Bell 202T leased line modem with the fastest training time in the industry: 23msec RTS/CTS delay. Ideal for utility and industrial automation multi-dropping applications, including SCADA systems, traffic automation and oil & gas automation projects, where an unlimited number of drops is desirable.

The DSP9612RM is a rack-mount modem designed for 4-wire, full-duplex or 2-wire, half-duplex operation over a voice-band leased line. The modem design utilizes the latest digital-signal processing (DSP) technology to achieve high performance.

In FlashPoll Mode (9600/4800 bps), the DSP9612RM employs Telenetics' proprietary modulation and encoding scheme to achieve fast modem training time. In Bell 202T Mode, the modem is also backward compatible with Bell 202T (0 – 1800 bps) modems.

Ideal for systems where fast response, short training time and low throughput delay is required, FlashPoll is optimized for fast receiver equalizer training and extremely low throughput delay.

The dual mode capability allows the DSP9612RM to communicate with existing Bell 202T (0-1800, bps) remote modems, which can then be upgraded at a later date to Telenetics DSP9600FP FlashPoll standalone modems (see separate Data Sheet No. 0074 0900).

The Telenetics® FlashPoll™ modems are designed to optimize communication links where high speed or an unlimited number of drops is necessary.

▲ *Dual Mode: 9600/4800 bps and FSK, Bel202T 0-1800 bps*

▲ *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*

▲ *Installs in the Telenetics and Motorola/UDS RM16M Universal Data Shelf™.*

FOR MORE INFORMATION ON THE FLASHPOLL AND FAST POLL MODEMS SERIES CONTACT TELENETICS AT:

949-455-4000 or visit www.telenetics.com

GENERAL SPECIFICATIONS

Data Rate	<i>FlashPoll Mode:</i> 9600 or 4800 bps asynchronous, +1% - 2.5% <i>Bell 202T Mode:</i> 0 – 1800 bps asynchronous, +1% - 2.5%
Data Format	8 or 9 data bits with 1 or more stop bits
Line Requirement	TELCO Voice band 4 or 2 wire leased line. Private metallic circuits, 26 to 19 AWG
Operating Modes	2-wire half-duplex or 4-wire full-duplex
Modulation	Telenetics proprietary (FlashPoll Mode) and FSK (Bell 202T Mode)
Equalizer	Automatic, adaptive
Training Time	<i>RTS to CTS delay</i> <i>FlashPoll Mode:</i> 23 ms <i>Bell 202T Mode:</i> 8,33,59,219 ms
Cable Equalizer	Fixed transmitter and receiver cable equalizer, selectable
Power Supply	From RM16 Rack
Surge Protection	Provided at power line and leased line Up to 15KV (Standalone version)
Carrier Control	Constant or switched, DIP switch selectable
Carrier Loss Recovery	Built-in Train on Data (typically less than 10 sec)
Receiver Dynamic Range	+3 to -30 dbm or -10 to -43 dbm (DIP switch selectable)
Operating Temperature	-40°C to +85°C

The modem can be installed in both the Telenetics and the Motorola/UDS RM16M Universal Data Shelf. The modem occupies only one rack slot, eliminating the hassle of equipment trays and power bricks required for standalone modems. The modem is powered from the Universal Data Shelf.

MECHANICAL SPECIFICATIONS

Form Factor	Rack-Mount Modem Card for the Telenetics and the Motorola/UDS RM16M Universal Data Shelf
Dimensions	9" deep x 6.25" high x 0.87" thick
Weight	8 oz.

RS-232 (DTE) INTERFACE

Signal Name	Modem Input/Output	DB25	Pin Description
Earth	GND	1	Earth Ground
TXD	Input	2	Transmit Data
RXD	Output	3	Receive Data
RTS	Input	4	Request To Send
CTS	Output	5	Clear To Send
DSR	Output	6	Data Set Ready (Modem Ready)
SG	GND	7	Signal Ground
DCD	Output	8	Data Carrier Detected
DTR	Input	20	Data Terminal Ready (Host Ready)

Note: DCD active indicates that carrier is present and data at RxD is valid. DCD is not an energy detector.

DIAGNOSTIC FEATURES

Front panel L.E.D. for status monitoring:

Power (PWR)	Data carrier detect (DCD)
Request to send (RTS)	Data set ready (DSR)
Clear to send (CTS)	Analog loopback (ALB)
Transmit data (TXD)	Digital loopback (DLB)
Receive data (RXD)	

Front Panel loopback control for testing:

Local Analog Loopback (ALB)
Local Digital Loopback (DLB)
Remote Digital Loopback (RDL)

*For more information on the FlashPoll and other
Fast Poll Series by Telenetics please contact us at:*

949-455-4000 *or*
visit www.telenetics.com

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