

FlashPoll • DSP9612-LV INDUSTRIAL MODEM

KEY FEATURES

- Designed to optimize communication links where high speed or an unlimited number of multi-point drops is necessary.
- Dual Mode: 9600/4800 bps and FSK, Bell202T 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 Raymar-Telenetics and Motorola/UDS RM16M Universal Data Shelf
- Powered by low voltage DC, 10-53VDC

PERFORMANCE & APPLICATION

The **Raymar-Telenetics** FlashPoll DSP9612-LV 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 DSP9612-LV is a standalone modem powered from 10 - 53VDC and is designed for 4-wire, full-duplex, or 2-wire, half-duplex operation over a voice-band leased line or private wire/unloaded metallic circuit. The modem design utilizes the latest digital-signal processing (DSP) technology to achieve high performance.

COMPATIBILITY

In FlashPoll Mode (9600/4800 bps), the DSP9612FP-LV employs **Raymar-Telenetics**' proprietary modulation and encoding scheme to achieve fast modem training time. In Bell 202T Mode, the modem is end-to-end and backward compatible with Bell 202T (0 - 1800 bps) modems.

OPTIMIZATION & CAPABILITY

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 DSP9612FP-LV to communicate with existing Bell 202T (0 - 1800 bps) remote modems, which can then be upgraded at a later date to a **Raymar-Telenetics** DSP9612FP FlashPoll standalone or DSP9612RM Rack Mounted modems.



RAYMAR INFORMATION TECHNOLOGY, INC.

7325 Roseville Road Sacramento, CA 95842

Phone +1-916-783-1951 FAX +1-916-783-1952

sales@raymarinc.com

1-800-695-1951

Tech Support Hotline 1-800-747-1522

www.raymarinc.com

FLASHPOLL • DSP9612-LV • DUAL MODE MODEM

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Data Rate: FlashPoll Mode:

9600 or 4800 bps

asynchronous, +1% - 2.5%

Bell 202T Mode

0 - 1800 bps asynchronous

+1% - 2.5%

8 or 9 data bits with 1 or **Data Format:**

more stop bits

TELCO Voice band 4 or 2 Line Requirement:

wire leased line /private wire and metallic circuits 26 to 19 AWG

Operating Modes: 2-wire half-duplex or

4-wire full-duplex

Modulation: Raymar-Telenetics proprietary

(FlashPoll Mode) and FSK

(Bell 202T mode)

Equalizer: Automatic, adaptive

Training Time: RTS to CTS delay

FlashPoll Mode: 23 msec Bell 202T Mode: 8,33,59,219 ms

Cable Equalizer: Fixed transmitter and

receiver cable equalizer,

selectable

Power Supply: 10 to 53VDC

Surge Protection: Provided at power line and

> leased line. Up to 15K (Standalone version)

Constant or switched, DIP **Carrier Control:**

switch selectable

Carrier Loss Built-in train on Data Recovery:

(typically less than 10 sec)

Receiver Dynamic +3 to -30 dbm or -10 to -43

dbm (DIP switch selectable) Range:

Operating -40°C to +85°C

Temperature:

MECHANICAL SPECIFICATIONS

Aluminum with removable Enclosure:

front and rear panel

Dimensions: 5.70"W x 8.30"L x 1.50"H

> Weight: 1.9 lb

INTERFACE CONNECTORS

Connector: 4-position screw terminal,

2- or 4-wire leased line or

metallic circuit

Data Terminal

DB-25F power connector

Equipment:

RS-232 (DTE) INTERFACE

	1		
Signal	Modem	DB25	Pin Description
Name	Input/Output		
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 (HostReady)

Note: DCD active indicates that carrier is present and data 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)

WARRANTY

Raymar-Telenetics manufactured products are warranted against defects in hardware material and workmanship under normal use for one (1) year from date of original retail purchase. Defective product will be repaired or replaced, determination to be made by Raymar-Telenetics, at no charge. Repaired or replaced products are warranted for 90 days or for original warranty period, whichever is longer. Warranty extends to original end-user only.

