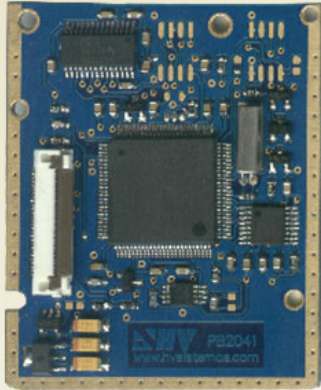


internal multimode modem FSK/FFSK/GMSK P8502 for PROIS Motorola radios

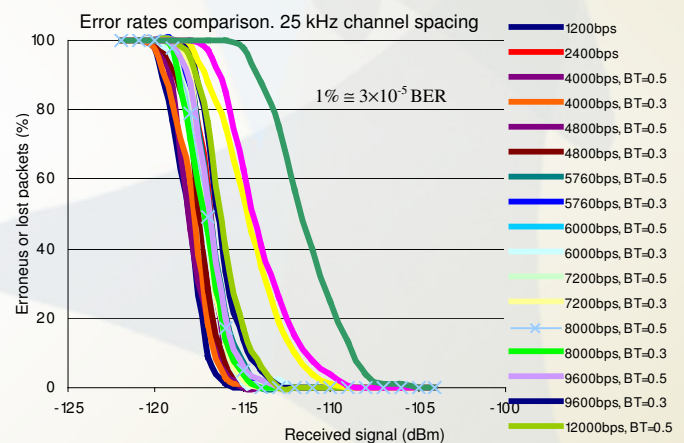
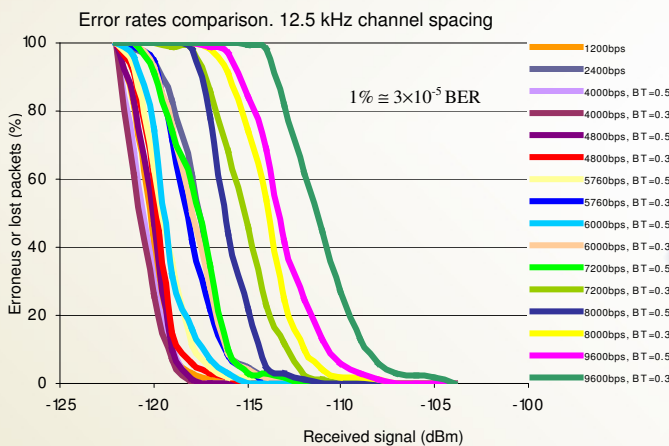


P8502 modem is intended for use with Commercial Series Motorola Radios with PROIS interface. This modem is constructed around a powerful digital signal processor, and it has a great degree of flexibility, enabling it to be adapted to customer specific special functionalities. As its external counterpart (P8501 Modem) and the Professional Series radios version (P8402 Modem) it has a common hardware for all its operating modes.



Among its configuration options, it has optional muting of data frames, specific-channel data transmission, or voice-over-data or data-over-voice priority. It can work with FSK, FFSK or GMSK modulation types, and can provide data over ratio transmission up to 14400bps.

This modem can be used with the following Motorola Commercial Series radios: CM160 - CM360 - GM3688 - EM400 - CM300 - PM400



Especificaciones*

Power supply	From radio, through PROIS connector
Modulation types	FSK (1200/1800Hz @ 1200bps, 1200/2400Hz @ 2400bps) GMSK (BT selectable 0.3 ó 0.5)
Data over radio baud rate	FSK (independently configurable mark and space frequencies) 1200 or 2400bps using FFSK modulation, 0-600, 0-2400 bps using FSK modulation
Data over radio format	4000, 4800, 5760, 6000, 7200, 8000, 9600, 12000 ó 14400 using GMSK modulation
Data interface	Synchronous, HDLC subset, NRZ or NRZI data coding, optional randomizer. Free format in FSK modes
Data buffer size	RS-232 or RS-422/RS-485, version depending
Serial baud rate	4096 bytes total, that can be assigned to receive or to transmit buffer in 256-byte intervals (for example, 3072 bytes for RX and 1024 bytes for TX)
Serial data format	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600 or 115200bps
Additional capabilities	Asynchronous, 8-bit per word, parity selectable odd, even, none Group code, with independent selection for TX and RX Carrier inhibited transmission Voice over data or data over voice priority Channel change for data transmission with optional return to previous channel or to specific channel
Size	Standard PROIS board for use with Motorola Commercial Series mobile radios

* Specifications subject to change without notification