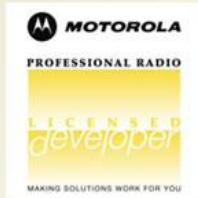




HV Sistemas S.L.

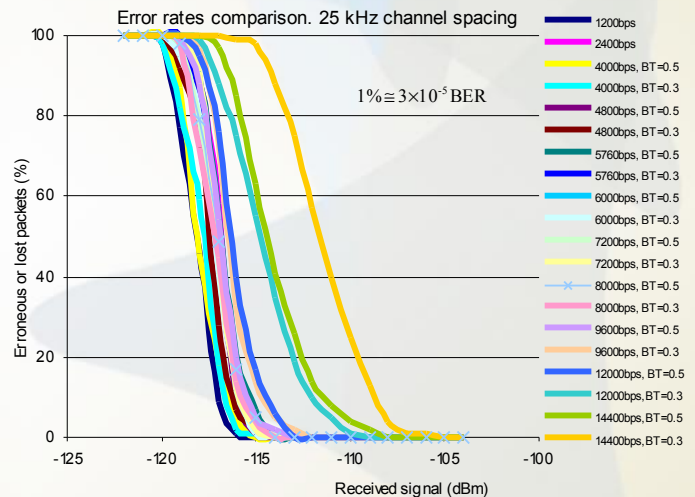
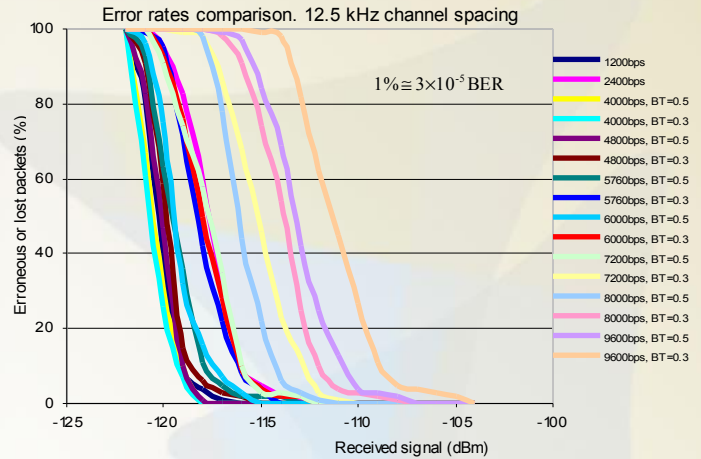
Trustworthy radio data transmission

internal multimode modem FSK/FFSK/GMSK P8402 for PROIS Motorola radios



This modem is designed to be using with Motorola PROIS radios.

Its DSP-based architecture makes it very flexible, adaptable to specific functions tailored to customer's needs. Like the external version (multimode modem P8501) it uses the same hardware for all operating modes. Among its configuration options, stands out the optional silencing of data frames, or the transmission in a specific data channel and the possibility of giving priority to voice over data or to data over voice. Thanks to the open philosophy that characterizes our product range, it can be easily incorporated into existing networks.



Specifications*

Power supply
Modulation

From radio, though PROIS connector
FFSK (1200/1800Hz @ 1200bps, 1200/2400Hz @ 2400bps)
GMSK (BT selectable 0.3 or 0.5)

Data over radio baud rate

FSK (selectable mark and space frequencies)
1200 ó 2400bps using FFSK modulation, 0-600, 0-1200 bps using FSK modulation
4000, 4800, 5760, 6000, 7200, 8000, 9600, 12000 or 14400 using GMSK modulation
Synchronous, HDLC subset, selectable NRZ or NRZI coding, selectable randomizer

Data over radio protocol

Data interface

Buffer size

RS-232 or RS422/RS485 version depending. Raw in FSK modes
4096 bytes total, than can be assigned to receive or transmit buffer in 256 bytes increments (for example, 3072 bytes for receive and 1024 bytes for transmit).

Serial baud rate

Serial data format

Other functionalities

300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600 ó 115200bps, selectable
Asynchronous, 8 bits, no parity, even parity or odd parity

Group code, independently selectable for TX and RX

Transmit inhibit on radio busy

Data over voice or voice over data priority

Channel change for data transmission, with optional return to previous or to preset channel

Size

Standard PROIS board for use with Motorola Professional Series mobile radios, and Motorola Professional portable radios with no keyboard

* Specifications subject to change without notification