MHX1320   OEM UHF Frequency Hopping Modem

The MHX1320 is a long range - 1350 to 1400MHz UHF Frequency Hopping Modem. The MHX1320's RF rate can be optimized for long distance communication over 60 miles. MHX1320 radios offer the fastest communication over the longest distances.

Applications:

- *Unmanned Aerial Vehicles,*
- *Drones*
- *Unmanned Ground Vehicles*
- *Wireless Video, Telemetry*
- *DGPS*
- *Research & Development*
- *Robot Control*

Need a Transceiver with exceptional performance - try MHX1320.

This radio offers robustness, speed, and range in a small package!

The MHX1320 features robust, high speed, low latency, secure data communications. The MHX1320 has a full serial data port and a separate diagnostics port for real-time diagnostics; which does not interfere with data communications. MHX1320 offers excellent noise figure, superior interference rejection, very agile frequency synthesis, digital modulation, and matched filter detection. The MHX1320 can be user optimized for speed and distance.

Features of the MHX1320

- Transparent, low latency link providing true 230 kbps continuous which customizable to meeting different emission bandwidths

- Easy migration from ISM band modem (MHX920) with footprint compatibility

- Wide temperature specification

- Supports point-to-point, point-to-multipoint, Store and Forward Repeater, TDMA, Multimaster

- Output Power 1W

- Low power consumption in Sleep Mode and High Voltage Option

- 32-bit CRC, selectable forward error correction with retransmit

- Separate diagnostics port - transparent remote diagnosis and online network control

MHX1320 HV Option

Restricted Sale to Military, Government and Export.
Export Means Qualifying Customers Outside Canada and USA.

MHX1320 — Specifications

Frequency Band	1350 - 1400 MHz	IO voltage (user selectable)	3.3VDC to 5.5VDC, RS232/485/422 Levels(See option 100)
Channel Bandwidth	Depends on link rate	Antenna Connector	MCX, Reverse SMA (option 110)
Synthesizer Step	50 Hertz	Environment	-40 °C to +85 °C
Selectable Channels	16,000 at 6.25 kHz	Weight	Approx. 80 grams
Error Detection	32 bit CRC, retransmit on error	Dimensions	Approx. 3.5" x 2.1" x 0.7"
Data Encryption	128Bit Dynamic Key Substitution	Sale Restriction	Restricted Sale to Military, Government and Export. Export Means Qualifying Customers Outside Canada and USA.
Range	+60 miles		
Sensitivity	-107 dBm in fast mode -115 dBm in slow mode		
Output Power	100mW to 1W		
Form Factor	MHX920 compatible		
Data Port Inteface	RS-232/RS485/RS422 TTL or Drivers Level		
Serial Baud Rate	300bps to 230.4kbps		
Throughput	230.4kbps		
Operating Modes	Point-to-Point, Point-to-Multipoint, Store&Forward Repeater, TDMA, Multimaster, Peer to Peer, Transparent		
Signals Interface	RxD1, TxD1, RTS, CTS, DCD, DSR, DTR, RxD2, TxD2, RSSI1,RSSI2,RSSI3, Tx LEDs, Rx LEDS, Reset, Config, Wake-up, RSmode, User Analog Input		
Diagnostics	Reflected Power, VSWR, Battery voltage, Temperature, RSSI, Real-time event logging and remote diagnostics		
Rejection	Excellent Strong Signal Interference & Rejection Characteristics		

Order Options

Option 100	HV OPTION - High Input voltage (7V to 30V) with RS232/RS485/RS422 Drivers
Option 110	Reverse Polarity SMA Connector

Contact Information

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