LPMX

Low Power Transceiver Radio Modem + Power Supply

Features

- Frequency Ranges:
- 138-154 MHz
  640 channels
  25 kHz step
- 154-158.3 MHz
  860 channels
  5 kHz step
- 164-174 MHz
  1600 channels
  6.25 kHz step
- Weighs only 0.75 lb
- Sealed case allows for outdoor use.
- RS-485 interface
- Message relay/repeat capability
- Very low power consumption
  Receive: 4.4mA typ
  Sleep: < 80uA typ
- Extended Temperature Range with built in temperature sensing
- Messages can be sent using ASCII or binary.
- Robust power supply that greatly increases battery life for remote applications, and built in current limiting for USB.
- USB programming cable and TNC antenna included.

The Qual-Tron LPMX, Low Power Modem, is an RF data modem designed to make it easy for users to send data over-the-air, to and from remote units. The LPMX consumes very little power when receiving, and only microamperes while in sleep mode. The LPMX is an ideal solution for remote units that require battery power. The included robust power supply, adds enhanced battery operation that allows the user to power the LPMX with 4.5 VDC up to 16.5 VDC, with built-in current limiting for USB.

The LPMX defaults to ASCII text mode, which allows the user to send and receive messages with the use of any terminal program.

The LPMX also has the option of a pure binary mode, which allows the user to send binary messages, with half the overhead of ASCII.

Applications:

- Security
- Sensor reporting
- Telemetry
- Remote Control

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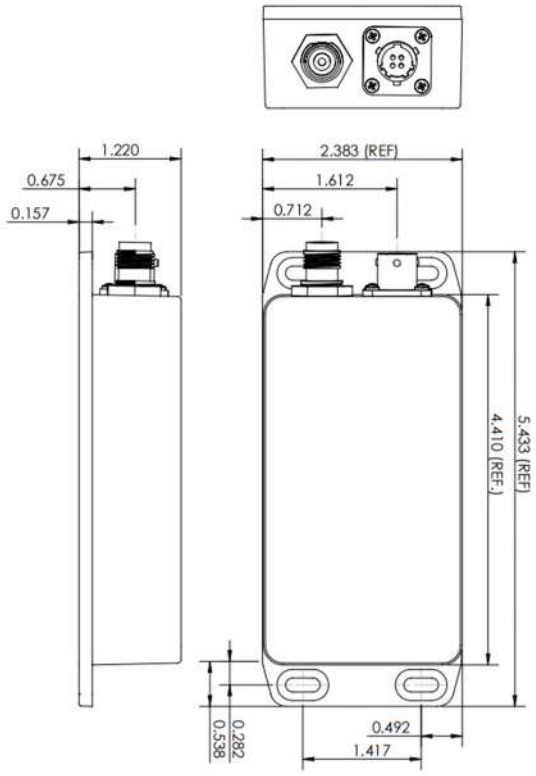
Specifications

Serial Data	
Baud rate	38.4k
Parity	None
Data bits	8
Stop bits	1
Flow Control	None
Power	
Input Voltage	4.5-16.5 VDC with current protection for USB
Receive Current	<4.4mA @ 9V
Transmit Current	<500mA
Sleep Current	<80uA @ 9V
Power Consumption	<40mW Receiver on
Environmental	
Operating temperature	-40 to +65 C
Storage temperature	-50 to +70 C
Radio Frequency	
Frequency	138-154, 154-158.3, 164-174 MHz
Transmitter Power	1.3 W typical
Receiver Sensitivity	-117 dB typical
RF Data Rate	2.4 kbps
Agency Approvals	
FCC	pending
I/O Connector – Amphenol PT02E-8-4P	
Pin A	GND
Pin B	Vin [Input] 4.5-16.5 VDC 1.5A Peak
Pin C	RS485 Data [A]
Pin D	RS485 Data [B]
RF Connector	
50 ohm	TNC
Mechanical Dimensions	
L, W, H	5.43"x2.38"x1.22"



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