

LPMX Low Power Trans + Power Supply

Low Power Transceiver Radio Modem + Power Supply



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

Features

- Frequency Ranges:
- 138-154 MHz640 channels25 kHz step
- 154-158.3 MHz860 channels5 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.

Qual-Tron, Inc.

9409 E. 55th Place, Tulsa, OK 74145 <u>info@qual-tron.com</u>

Specifications

Seri	ial	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 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"





