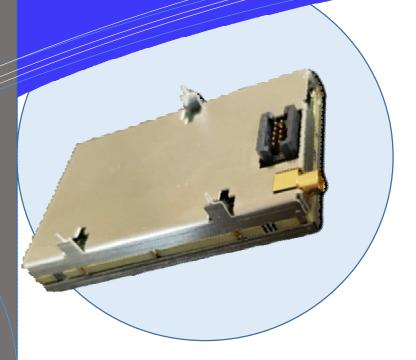


LPM Low Power Transceiver Module



The Qual-Tron LPM, Low Power Module, is an RF data modem designed to make it easy for users to send data over-the-air, to and from remote units. The LPM consumes very little power when receiving, and only microamperes while in sleep mode. The LPM is an ideal solution for remote units that require battery power. Users can provide their own (low noise) power supply of at least 6.5 VDC, or the LPM can also be purchased with our robust power supply.

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

The LPM 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

Qual-Tron, Inc.

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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
- Small Form Factor2.1"x1.3"x0.5"Weighs only 0.78 oz
- RS-485 interface
- Message relay/repeat capability
- Very low power consumption
 Receive: 3.2mA typ
 Sleep: < 10uA typ
- PCB mountable
- Extended
 Temperature Range
 with built in
 temperature sensing
- Messages can be sent using ASCII or binary.

Specifications

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Baud rate 38.4k
Parity None
Data bits 8
Stop bits 1
Flow Control None

Power

Input Voltage 6-12 VDC Receive Current <3.2mA @ 9V

Transmit Current <1A @ 9V, 700mA typical
Sleep Current <80uA @ 9V, 10uA typical
Power Consumption <30mW @ 9V 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 -117dB typical 2.4 kbps

Agency Approvals

FCC pending

I/O Connector - SAMTEC TFM-105-02-L-P-D

Pin 1,2 Vin [Input] 6.0-12 VDC 1.5A Peak Transmit Enable [Output] Active

Pin 3 Low

Pin 4 RS485 Data [A] Pin 5 RS485 Data [B]

 Pin 6
 NC

 Pin 7
 NC

 Pin 8
 NC

 Pin 9, 10
 GND

RF Connector

50 ohm MMCX

Mechanical Dimensions

L, W, H 2.082"x1.281"x0.49"

Standoff Tabs 0.175" long, 0.075" standoff

