

## 915 MHz RN2903 LoRa Technology Mote

Part Number: DM164139

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The RN2903 LoRa® Mote is a LoRaWAN™ Class A end-device based on the RN2903 LoRa modem. As a standalone battery-powered node, the Mote provides a convenient platform to quickly demonstrate the long-range capabilities of the modem, as well as to verify inter-operability when connecting to LoRaWAN v1.0 compliant gateways and infrastructure.



The Mote includes light and temperature sensors to generate data, which are transmitted either on a fixed schedule or initiated by a button-press. An LCD display provides feedback on connection status, sensor values and downlink data or acknowledgements. A standard USB interface is provided for connection to a host computer, providing a bridge to the UART interface of the RN2903 modem. As with all Microchip RN family of products, this enables rapid setup and control of the on-board LoRaWAN protocol stack using the high level ASCII command set.

Features

Package Contents

- 915 MHz High-Frequency SMA Connector
- USB Mini-B Connector
- PIC18LF45K50 8-bit MCU
- Mote ICSP Programming
- LCD Display
- S1 & S2 Switches (for Menu Navigation)
- Ambient Light Sensor
- Linear Active Thermistor (MCP9700T)
- LDO Regulator (MCP1825S)
- Descriptive LEDs, (2) Controlled by PIC18, (2) Controlled by Module
- (2) AAA Battery Pack
- Battery Power Switch
- Alternative Power Supply Through Hole Connectors

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