RM200M Two-Way Modem Module Development Kit

The Power Of Globalstar's LEO Satellites Paired With Your Innovative Solution.

The RM200M satellite modem module can be quickly and effectively integrated into technology to develop unlimited applications for a range of markets. The modem leverages industry leading BLE5, Nordic C, and comprehensive unified APIs, empowering rapid development and customization of firmware for more advanced smart data applications at the edge.

An RM200M Dev Kit consists of a RM200M module mounted on an Arduino Rev 3 Shield as well as a combined satellite and GPS antenna Puck. This kit allows partners to develop and test technology designs before committing them to hardware. The RM200M Development Kit comes complete with 60 days of pre-authorized satellite usage time. Additionally, partners who opt for the Development Kit receive one-year access to Globalstar GitHub for source code.

All customer-designed RM200M end-products require Globalstar Network Certification. We recommend you contact our Globalstar Product Certification Team as early as possible in your development cycle.

Please contact your Regional Sales Manager to begin the process.

Automate Processes At The Edge

The onboard processing capacity of Realm Edge devices like the RM200M makes it possible to fully automate remote processes to save money, increase productivity, improve margins and enhance safety. The module contains 10 configurable Input/Outputs (I/Os) that interface with sensors and actuators. This combination of custom software and powerful hardware can not only detect change but take immediate and high-value action in response.

Next Generation Developer Solution

The same software developed for the RM200M can automatically dispatch smart messages over the Globalstar Satellite Network to alert managers to the issues and supply data to management systems. Seven of the device's inputs can be configured as analog, which allows them to measure and report changes per connected analog sensor.

Key Features

- Globalstar RM200M
- Globalstar's Edge Application Platform
- High performance Nordic 52840 SoC
- GPS and 3 axis accelerometer
- Integrated voltage regulation
- 2.4 GHz chip antenna for Bluetooth®
- USB interface for DC input
- USB client interface
- SMA connectors for GPS, satellite transmit, satellite receive
- Current shunt
- Line DC input
- NFC connector
- Analog adjust potentiometer
- User LEDs and buttons
- Mobile App available for iOS and Android
- Arduino Uno Rev3 form factor

Satellite Payload

- Mobile originated messaging up to 144 bytes of data
- Mobile terminated messaging up to 128 bytes of data
- Configurable message priority
- Prioritized message queue
- Raw and truncated messaging, legacy and acknowledgeable
- Interval or time-of-day messaging

Technical Specifications

Dimensions

- Dev Board 6.905" (L) x 2.80" (W) (175.4 mm x 71.1 mm)

Operating Temperature

- -40 °F to 185 °F (-40 °C to 85 °C)

Satellite Technology

Operates over the Globalstar LEO Satellite Network

Edge Application Platform

Leveraging industry leading BLE, Nordic C, and comprehensive unified APIs, the Globalstar Application Enablement Platform provides an extensive library of application software and sophisticated libraries for sensors, updates, configuration, and data. It empowers rapid development and customization of firmware for more advanced smart data applications.

The Edge Application Platform easily integrates with IIoT (Industrial Internet of Things) platforms and proprietary enterprise applications via APIs enabling AI at the edge.

- **Subscriber Management –** Provisioning, connectivity, and configuration
- **Device Management –** Single interface, device inventory, and common APIs
- **Health Monitoring –** Pro-active device health monitoring, and superior support
- **Application Enablement Platform –** Leverage industry leading BLE, Nordic C, and comprehensive unified APIs
- **Applications –** Extensive library of application software
- **Common Architecture –** Simplified design with common hardware and software architecture
- **BLE –** Sophisticated libraries for sensors, updates, configuration, and data

For more information on how Globalstar's advanced product technologies can become an integral part of your wireless solution, please visit us online at www.globalstar.com.