# RM200M Two-Way Modem Module

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

RM200M Two-Way Globalstar LEO satellite module employs a single-stack chip design to provide seamless connectivity with advanced capabilities to track and monitor data with reliable connectivity. The RM200M utilizes enhanced two-way functionality on Globalstar's LEO satellite network to provide ubiquitous, seamless coverage with low power, low latency, integrated GPS, Bluetooth® low energy, a 3D accelerometer and application processor.

## Single Chipset

Globalstar's new architecture leverages a single stack chipset to provide two-way LEO satellite connectivity. This unique design offers advantages in hardware cost-effectiveness and network functionality. A single SKU also provides VARs, systems integrators and enterprises with simplified management of parts, firmware, product configuration profiles and support, as well as reducing personnel training needs.

## Simplified Solution Development For Direct To IoT Devices

Bring complete IoT products to market faster and reduce programming costs. The Realm Edge Application Platform provides access to the RM200M firmware to configure applications that run the edge systems and an extensive and growing library of APIs to interface with sensors. Also included are hardware interfaces allowing full driver/hardware abstraction and APIs that give your custom applications access to device capabilities.

## Bluetooth Sensor Network

The Bluetooth® low energy 5.4 standard enables easy pairing of sensors to the RM200M module and simplifies sensor management. Globalstar has pre-approved a series of Ela sensors for compatibility with multimode systems. Customers can also integrate their own Bluetooth® sensors via the Realm Edge Application Platform.

# Product Features

**Features**

- Low-power, single-stack module
- Zero Touch Provisioning, a groundbreaking feature for automating and streamlining IoT device configuration for cloud connectivity
- Bluetooth® 5.4
- Integrated GPS receiver
- Accelerometer
- Realm Edge Applications Platform
- Realm Cloud device and data management

**Satellite Network/Services**

- Globlastar LEO network

**Satellite Bands**

- L, S bands

**Satellite Message Size**

- Mobile originated: 9 – 144 bytes
- Mobile terminated: 9 – 128 bytes

**Operating Temperature Range**

- -40C to +85C

**Dimensions (W x H x D)**

- 28.3mm x 50.8mm x 3.6mm

**Weight**

- 0.38 oz (11 gm)

**Certification & Conformity**

- FCC Parts 15, 25 (**22, 24, 27)
- ISED
- Bluetooth® SIG
- **ITU GMCPS
- **ANATEL

** In Progress

**Peripherals**

- UART (1)
- USB (1)
- I2C (1)
- SPI (1)
- Configurable input/output (10)
- Analog input (7)

**GNsSS**

- 72-channel GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1l, Galileo E1B/C, SBAS L1 C/A, WAAS, EGNOS, MSAS, GAGAN

**Current Draw**

- Sleep current – 60uA at room temperature
- Active mode – 61 mA
- Tx – 324 mA
- Rx – 134mA
- 3.3 VDC applies to all of the above

**Horizontal Position Accuracy**

- 2.5m

**Bluetooth**

- Bluetooth® low energy 5.4

**Sensors**

- Up to 10 Bluetooth® low energy sensor nodes

**Accelerometer**

- 3-axis MEMS
- ±2g, ±4g, ±8g, ±16g full scale
- 6D orientation detection

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### Globalstar Network Certification

Solutions developed with this module will require Globalstar Network Certification. Process times for certification may vary so reach out to your sales representative today to get started.

**To learn more contact us at salesinfo@globalstar.com.**

**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.**