



Globalstar ™

Need High-Performance IoT at the Edge?

How about a two-way module which provides edge processing capabilities and is readily available for integration into your IoT solution?

Think of the possibilities.



Industrial IoT applications are transforming how we do business, with spending on deployments doubling every three years worldwide.¹ But IoT applications are not created equal. When they serve mission-critical requirements in safety, security and continuity of service, IoT may need to do more than report data – it may need to take action. Triggering local alarms, opening or closing valves, locking doors or disabling engines. And it may need to reach places where power and wireless connectivity can't be taken for granted.

If those are your requirements, you need Globalstar IoT Solutions.



Globalstar has engineered an IoT module for integration into your IoT solution and provides two-way service over Globalstar's affordable, reliable LEO satellite network.

Hardware, however, is only the beginning. Our Realm Edge Application Platform provides access to firmware for configuring applications, managing hardware interfaces and accessing an extensive and growing library of sensor APIs. This low-code edge application platform can slash hundreds of hours of development time for the industry-specific solutions that deliver the greatest value.

RM200M Module

The module, in a 50mm-long package, brings two-way satellite communication capabilities to IoT systems. The RM200M leverages a single-stack chipset that simplifies parts management and improves hardware cost-effectiveness.



Dimensions (W x H x D)
28.3mm x 50.8mm x 3.6mm

Benefits

- Zero-Touch Provisioning, a groundbreaking feature for automating and streamlining IoT device configuration for cloud connectivity
- Up to 10 Bluetooth® 5.4 low-energy sensor nodes
- Integrated GPS receiver
- Accelerometer
- Low-power, single-stack module
- Realm Edge Applications Platform
- Realm Cloud device and data management
- Enhanced power consumption
- Extended battery life
- Affordable, competitive alternative Benefits

Product Features

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 Part 15, 22, 24, 25 and 27
- **ISED, ANATEL
- **Bluetooth® SIG
- ITU GPCPS

**in progress

Satellite Network/Services

- Globalstar LEO Network

Satellite Bands

- L, S Bands

Satellite Message Size

- Mobile Originated: 9 - 144 bytes
- Mobile Terminated: 9 - 128 bytes

GNSS

- 72-channel GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1I, Galileo E1B/C, SBAS L1 C/A, WAAS, EGNOS, MSAS, GAGAN

Peripherals

- UART (1)
- SPI (1)
- USB (1)
- Configurable Input/Output (10)
- I2C (1)
- Analog Input (7)

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

Simplifying Solution Development

The RM200M is configured with the Realm Edge Application Platform. This low-code platform provides:

- Subscriber management
- Device management
- Health monitoring
- Extensive application library including APIs
- BLE libraries for sensors, updates, configuration, and data

Using Realm, you can enable full automation of remote processes to save money, increase productivity, improve margins and enhance safety. This combination of custom software and powerful hardware can not only detect change but take immediate and high-value action, such as:

- Response to potentially dangerous pressure changes detected in pipelines
- Automatic start/stop of irrigation systems based on input from soil-moisture sensors
- Remote engine disablement if GPS location detects vehicle moving outside geofenced area
- Remote door locking when unexpected movement is detected in secure areas.



Why Globalstar?

Globalstar helps people connect, communicate, and transmit data in smarter ways.

Globalstar empowers its customers to connect, transmit, and communicate in smarter ways – easily, quickly, securely, and affordably – offering reliable satellite and terrestrial connectivity services as an international telecom infrastructure provider. The Company's low Earth orbit ("LEO") satellite constellation ensures secure data transmission for connecting and protecting assets, transmitting critical operational data, and saving lives for consumers, businesses, and government agencies across the globe. Globalstar's terrestrial spectrum, Band 53, and its 5G variant, n53, offer carriers, cable companies, and system integrators a versatile, fully licensed channel for private networks with a growing ecosystem

to improve customer wireless connectivity, while Globalstar's XCOM Radio Access Network ("RAN") product offers significant capacity gains in dense wireless deployments. In addition to SPOT GPS messengers, Globalstar offers next-generation internet of things ("IoT") hardware and software products for efficiently tracking and monitoring assets, processing smart data at the edge, and managing analytics with cloud-based telematics solutions to drive safety, productivity, and profitability.

We transform smart ideas into smarter solutions.

To learn more about how Globalstar can benefit your business, contact us at salesinfo@globalstar.com.

¹Straits Research's – Global Industrial IoT Market Segment, Trends, Report to 2031