



ST150M Development Kit

QUICKLY SPIN UP VERTICAL-SPECIFIC SOLUTIONS WITH CUSTOM APPLICATIONS

Introducing the **ST150M Development Kit**. Together with Globalstar's new **Application Enablement Platform**, integration and customization with modular software is at your fingertips.

The platform offers a free license to Seggar Embedded Studio, giving you easy integration and customization capabilities with the Realm unified API. The ST150M with BLE5 implementation and software library allows for a quick and secure integration of Bluetooth sensors. Support for Arduino shields offers quick hardware integration, in addition to exposed computer and I/O interfaces.

The **ST150M Development Kit** comes with a pre-installed module and 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 ST150M 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.



KEY FEATURES

- Globalstar ST150M
- Globalstar's Application Enablement Platform
- Globalstar satellite ASIC transmitter
- High performance Nordic 52840 SoC
- GPS and 3 axis accelerometer
- Integrated voltage regulation
- 2.4 GHz Chip Antenna for Bluetooth
- Shield for GPS, Satellite Antennas
- USB interface for DC input
- USB client interface
- u.fl connectors: GPS, ASIC
- 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

- 4 standard message types can send up to 144 bytes of data
- Modular message types with up to 144 bytes of data
- Configurable message priority
- Configurable message retry profiles
- Prioritized message queue
- Interval or Time-Of-Day messaging

For more information on how Globalstar's advanced product technologies can become an integral part of your wireless solution, visit us online at www.Globalstar.com. © 2022. All rights reserved.



TECHNICAL SPECIFICATIONS

DIMENSIONS

Dev Board 5" (L) x 2.57" (W) x 0.45" (H) (127 mm x 65 mm x 11 mm)

Antenna Shield 2.8" (L) x 2.57" (W) x 0.83" (H) (71 mm x 65 mm x 21 mm)

OPERATING TEMPERATURE

-40 °F to 185 °F (-40 °C to 85 °C)

SATELLITE TECHNOLOGY

Operates over the Globalstar Satellite Network



Dev Board



Antenna Shield

NEW GLOBALSTAR APPLICATION ENABLEMENT 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 Globalstar Application Enablement 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