



ST150M

MOST POWERFUL SMART DATA SATELLITE MODEM MODULE

Take your satellite asset tracking and data management solutions to the next level with the ST150M. Engineered with open source common architecture, the ST150M offers a simplified design with the latest hardware and software capabilities to support the most demanding development requirements.

The Globalstar's Application Enablement Platform offers ST150M users the utility for a wide range of applications, empowering rapid development and customization of firmware for more advanced smart data applications enabling AI at the edge.



FEATURES

- Globalstar Satellite ASIC Transmitter
- GPS Receiver
- Nordic 52840 SoC
- 8MB External Flash
- 3-axis accelerometer
- 24 configurable I/O pins
- Surface mount design
- Integrated voltage regulation
- Integrated BLE5 Sensor protocol
- Modular firmware for customization
- Globalstar's Application Enablement Platform

REALM ENABLEMENT SUITE

- **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 BLE5, Nordic C, and comprehensive unified APIs
- **Applications** – Extensive library of application software
- **Common Architecture** – Simplified design with common hardware and software architecture
- **BLE5** – Sophisticated libraries for sensors, updates, configuration, and data

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

TECHNICAL SPECIFICATIONS

- Built in programming headers
- I²C
- V_{in} - 3.3 Vdc I_{in} - 100 ma Max
- V_{RF in} - 3.3 Vdc I_{RF in} - 500 ma Max
- V_{USB} - 5.0 Vdc
- Operation and Storage: -40 °F to 185 °F (-40 °C to 85 °C)

DIMENSIONS

2" (L) x 1.10" (W) x 0.16" (H) (50.8 mm x 28 mm x 4 mm)

WEIGHT

Approx. 0.27 oz (7.6 g) with shield

CERTIFICATIONS

FCC and ISSED Full Modular Approval; CE and UKCA type exam certification