Globalstar™

Integrity 150

Transmit Smart Data From The Edge

Integrity 150 is a next-generation, solar-powered data transmitter and asset tracker that interfaces with industry-standard sensors over Bluetooth® and delivers Smart Data from the Edge. Users can quickly program AI-enabled applications and computing solutions using the Realm Enablement Suites, Edge Application Platform to process location and sensor data at the edge for low-cost Smart Data transmission.

Edge Application Platform

Quickly program AI applications for processing Smart Data. The low-code Edge Application Platform is the key to unlocking the unlimited capabilities of these rugged, reliable devices in the field and slashing hundreds of hours of development time. The standards-based architecture means that new features and platform upgrades can reliably access the same hardware interfaces, APIs, and applications as previous versions with no specialized coding.

The Platform provides access to the firmware and base applications that run the devices and an extensive and growing library of applications to interface with sensors measuring temperature, humidity, magnetic fields, angular position, motion, proximity, and other metrics.

Benefits

- Maintenance-free, solar powered device providing up to 10+ years of usable service
- Delivers reliable worldwide location reporting – providing security and improved efficiency
- Simple application – requires no harnesses, external power or antennas
- User selectable speed and heading operation
- Industry standard BLE encryption plus cloud-based key management plus configurable BLE sensor security
- Magnetic tamper switch
- Wide range of reporting capabilities, including:
  - Fixed or interval GPS location reporting
  - Change of location and motion alerts
  - Reduced messaging and theft recovery modes
  - Customizable messages
  - Broad range of data transmission capabilities

Accessories

- Stainless Steel Mount (Part No. 1850-0410-01)
- Bluetooth Dongle (Part No. 1950-0105-01)

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 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

Potential Applications

- **Transportation:** Monitor and track assets and fleet movements even in remote locations
- **Oil and Gas:** Aids in mobilization and deployment of high value assets in the field
- **Construction:** Determine if, when and where equipment is being used
- **Security:** Keep track of mobile assets such as rail cars, propane tanks and AgTech
- **Maritime:** Monitor and track high value assets, such as boats, barges and containers, at the dock and offshore
- **Other industry uses:** Mining, forestry, government, fisheries, and many more

Feature Set

Standard & Customizable Messaging

- Wake, GPS locate, transmit location, resume sleep settings
- 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 profile
- Prioritized message queue
- Interval or time-of-day messaging

BLE5

- Secure BLE Config service
- Industry standard encryption
- Cloud-based key management
- Configurable BLE sensor security

Tamper Detection

- Magnet-based

Integrated Accelerometer

- Message on start and stop
- Engage interval override on motion for set time or while in motion

Alternative Reporting

- Supervisory reporting schedule triggered by alarm or motion
- Transmits GPS location on interval for programmed time or while alarm remains active

Change Of Location

- Theft-alert reporting based on distance moved
- Reduced messaging mode
- REST APIs
- Secure cloud store-and-forward

Technical Specifications

Dimensions

- 10.3W9" (L) x 3.38" (W) x 1" (H)
  (264 mm x 86.1 mm x 25.4 mm)

Weight

- 14.2 oz/402 g
- With optional mounting bracket 32.02 oz. (908 g)

Operating Temperature

- -40° F to 185° F (-40° C to +85° C)

Satellite Technology

- Global LEO Satellite operation using the Globalstar Satellite Network. See Globalstar website for Coverage Map

Certifications

- FCC, ISED, CE, UKCA
- PENDING: ANATEL

Standards

- IP68/69K
- IEC 60945 (Maritime)
- MIL-STD-810G for:
- High and Low Temperature
  - Immersion
  - Dust
  - Water spray
  - Thermal shock
  - Mechanical shock
  - Rail impact
  - Vibration (rail, truck)

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.

Globalstar.com