Integrity 150

THE NEXT GENERATION SOLAR POWERED SMART DATA PROCESSOR AND TRACKER
TURN YOUR DATA INTO REAL-TIME OPERATIONAL INTELLIGENCE

The Integrity 150 is Globalstar's next-generation solar-powered satellite tracking and smart data management device. Engineered with open-source common architecture, the Integrity 150 offers a simplified design with the newest hardware and software capabilities and an abundant amount of storage to support the most demanding development requirements.

NEW GLOBALSTAR REALM ENABLEMENT SUITE

Leveraging industry leading BLE, Nordic C, and comprehensive unified APIs, the Globalstar Realm Enablement Suite provides an extensive library of application software as well as sophisticated libraries for sensors, updaters, configuration, and data. It empowers rapid development and customization of firmware for more advanced smart data applications.

The Globalstar Realm Enablement Suite easily integrates with IIoT Platforms to form the Realm proprietary enterprise applications via APIs.

IIoT Platforms provide a turnkey solution that includes a customizable application with powerful reports, dynamic dashboards, advanced analytics, and more.

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 Back Office 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)

GLOBALSTAR REALM ENABLEMENT SUITE

- Subscriber Management – Provisioning, connectivity, and configuration
- Device Management – Single interface, device inventory, common APIs
- Health Monitoring – Pro-active device health monitoring, superior support
- Application Enablement Platform – Leverage industry leading BLE, Nordic C, comprehensive unified APIs
- Applications – Extensive library of application software
- Common Architecture – Simplified design with common hardware and software architecture
- BLE – Sophisticated libraries for sensors, updaters, configuration, and data
- Informatics - Cloud based data management

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.
- Marine: Monitor and track high value assets, such as boats, barges and containers, at the dock and offshore.
- Other industry uses: Mining, forestry, government, fisheries, etc.

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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

BLE
- Secure BLE Config service
- Industry standard encryption
- Back Office 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
- Back-Office Configuration
- REST APIs
- Secure cloud store-and-forward

BACK-OFFICE CONFIGURATION
- REST APIs
- Secure cloud store-and-forward

TECHNICAL SPECIFICATIONS

DIMENSIONS
10.39" (L) x 3.38" (W) x 1" (H) (264 mm x 86.1 mm x 26.6 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)

BATTERY TYPE
Built-in rechargeable Li-Ion batteries (non-replaceable)

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 (Marine)
- MIL-STD-810G for:
  - High and Low Temperature
  - Immersion
  - Dust
  - Water spray
  - Thermal Shock
  - Mechanical Shock
  - Rail Impact
  - Vibration (Rail, Truck)

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