The Iridium Edge® Solar is a standalone and programmable, solar-powered Short Burst Data (SBD®) device that offers real-time GPS tracking and local wireless sensor and communication capabilities over Bluetooth. The product's self charging, low maintenance, long field life and over-the-air configuration allow Iridium Value-Added Resellers to create distinct tracking applications that can also be implemented to create even more complex solutions.

**BENEFITS**

**Highly Mobile** - The Iridium® satellite network provides communications and connectivity for mobile applications like oil and gas, transportation, agriculture and surface mining anywhere on the planet allowing tracking and monitoring of vehicles and assets operating in remote areas.

**Reliable Coverage** - Devices using the Iridium satellite network are enabled by a constellation of 66 Low-Earth Orbit (LEO) mobile satellites that provide service anywhere on the planet.

**Low Latency** - The Iridium satellites in Low-Earth Orbit (~800 km), enable signals to travel in 1/40 the time compared to geostationary satellites (36,000 km), resulting in low-latency, always-on connections ideal for Internet of Things (IoT) deployments.

**FEATURES**

- Bluetooth capability for wireless sensor integration and local device connectivity
- Over-the-Air Configuration Changes
- Interval and Scheduled Reporting Modes
- Start/Stop Reporting/In Motion Reporting
- Fully Encapsulated, No External Connectors, Water Ingress Protected
- Accelerometer and Magnetometer
- LED Status Indicator

**POWER MANAGEMENT**

- Photovoltaic Solar Cells, Rechargeable and Primary Batteries
- Smart Power Management System
- Up to 3-year Shelf Life
- Up to 10-Year Operational Service Life
- Back-up battery capacity provides 2x per day reporting for up to 5 years with no solar availability

*Preliminary Data Sheet- Information is subject to change*
MECHANICAL SPECIFICATIONS

Dimensions  164.2 mm x 71.2 mm x 32.9 mm (L x W x H)
Weight  ~ 470 grams

ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature  -40°C to 85°C
- High Temperature  MIL-STD-810G:501.5, IEC60068-2-2 to 85°C
- Resistance
- Low Temperature  MIL-STD-810G:502.5, IEC60068-2-1 to -50°C
- Resistance
- Recommended Storage Temperature
- Combined Thermal and Humidity Exposure  MIL-STD-810G:507.5, 20-95%RH up to 60°C
- Solar Radiation Exposure  UL746C F1, ASTM-G154 to 1.0 yr
- Salt Fog Exposure  MIL-STD-810G:509.5 IEC60068-2-11 to 1000 hrs
- Combined Operational Temperature and Altitude  MIL-STD-810G:500.6 to 15000 ft
- Thermal Shock  MIL-STD-810G:503.5, 20 cycles between -40°C to 85°C < 1 min transition
- Impact Resistance  ASTM D3763
- Operational Vibration  MIL-STD-810G:514.7, IEC60068-280 to 7.5Grms Random (5Hz-2000Hz)
- HALT  Qualmark HALT testing guideline 993-0336, Rev 4 to 50Grms (5Hz – 10000Hz, -40°C to 85°C)
- Mechanical Shock  MIL-STD-810G:516.7 to 300Gpk
- Reliability  IPC9592a
- Ingress Protection  IP68

CERTIFICATIONS AVAILABLE AT PRODUCT LAUNCH

FCC  Part 15, Part 25
Industry Canada (IC)  RSS-210, 247, ICES-003 Class B

CERTIFICATIONS AVAILABLE SHORTLY AFTER PRODUCT LAUNCH

Brazil  ANATEL Ato Nº 1120, Resolução Nº 680 e Ato Nº 14448
Australia/New Zealand  RCM - CISPR22
Mexico  IFT, NOM121
CB Ordinary Locations  IEC/EN 60950-1, EIC/EN 60950-22
Classification
OSHA Ordinary  ANSI / UL 60950-1, 60950-22
Locations Safety

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