



# IRIDIUM SATELLITE



## 9601 SBD Transceiver



The 9601 SBD Transceiver combines the global coverage of the Iridium satellite constellation with the low latency of the Iridium Short Burst Data Service (SBD) in a small, low-cost transceiver design. The 9601 is a lower cost, Iridium Satellite LLC manufactured product designed as an OEM module for integration into applications that only use the Iridium Short Burst Data Service. Short Burst Data applications are supported through an RS232 interface.

### Features

- Single Header Connector for:
  - Power
  - On/Off Control
  - RS232 9-wire Interface
  - Network Available
- SMA Antenna Connector to connect to small omni directional L-Band antennas
- Simple AT Command Interface

### Capabilities

#### Iridium Short-Burst Data (SBD) Service provides:

- Mobile Originated messages up to 205 bytes
- Mobile Terminated messages up to 135 bytes
- Low, uniform global latency (less than 1 minute)
- Coverage in areas not served by cellular

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## Basic Specifications

### Mechanical

- Length (without antenna connector): 106.4 mm
- Width: 56.2 mm
- Height: 13 mm (not including user interface connector)
- Weight: 117g

### Environmental

- Operating Temperature Range:  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Operating Humidity Range:  $\leq 75\%$  RH
- Storage Temperature Range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Storage Humidity Range:  $\leq 93\%$  RH

### RF Interface

- Frequency range: 1616MHz to 1626.5MHz
- Duplexing method: TDD (Time Domain Duplex)
- Oscillator stability:  $\pm 1.5\text{ppm}$
- Antenna VSWR: 1.5:1 (50 ohms)
- Multiplexing method: TDMA/FDMA

### DC Power Interface

- Main input voltage – nominal: 5.0 V DC  $\pm$  0.5V DC
- Main input voltage – ripple: 40 mVpp
- Peak input current @ 5V (maximum): 1.5 A
- Input current @ 5V (average) (See Note 1): 350mA
- Input standby current @ 5V (average): 66 mA

Iridium limits distribution of the Transceiver equipment to approved Iridium VARs and VAMs.

Specifications are subject to change without notice. Additional information to that contained herein may be required in order to develop a fully operational unit incorporating the 9601. The specifications provided herein are for informational purposes only.

Note 1: This is the current consumption when a SBD message transfer is in process. The average power consumption depends on the view of the satellite constellation from the antenna.



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