

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 340 bytes
- Mobile Terminated messages up to 270 bytes
- Low, uniform global latency (less than 1 minute)
- Coverage in areas not served by cellular



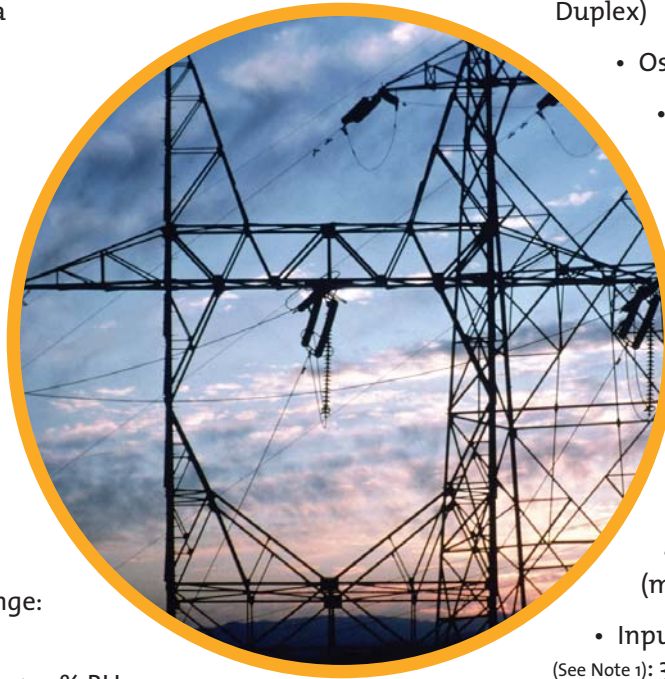
Basic Specifications

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: -35°C to $+70^{\circ}\text{C}$
- Operating Humidity Range: $\leq 75\%$ RH
- Storage Temperature Range: -40°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 $\pm 0.5\text{V DC}$
- 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

