



9522A L-Band Transceiver

What is it?

The 9522A L-Band Transceiver (LBT) is designed as a core OEM transceiver module that is incorporated into a final Iridium subscriber product. The complete product would include other components such as user interface features (keypad, display, microphone, and speaker) for voice applications. The Iridium subscriber products are microprocessor based with an external power supply and antenna. Voice applications are supported via a digital DPL bus and data applications are supported by a RS-232 serial interface.

The LBT is available exclusively to Iridium Value Added Manufacturers (VAM) and Value Added Resellers (VAR).

Features

- Single 25 pin Connector providing connections for:
 - Power
 - On/Off Control
 - Analog & Digital Audio Interface including microphone input and speaker output
 - RS232 9-wire Interface
- Integrated SIM Card Reader
- Enhanced AT Command Support
- TNC Antenna Connector
- FCC, IC and CE approved
- RoHS models available

Capabilities:

- Voice Service
- Circuit Switched Data Services
- Short-Burst Data (SBD) Service
- Short Message Service (SMS)
- Low uniform global latency
- Global coverage in areas not served by cellular



Specifications

Mechanical

Length (without antenna connector):
7.73" (196.4 mm)

Length (with Antenna
connector):
8.51" (216.1 mm)

Width: 3.25" (82.6 mm)

Depth: 1.54" (39.0 mm)

Weight (approximate):
1.45 pounds (659 g)

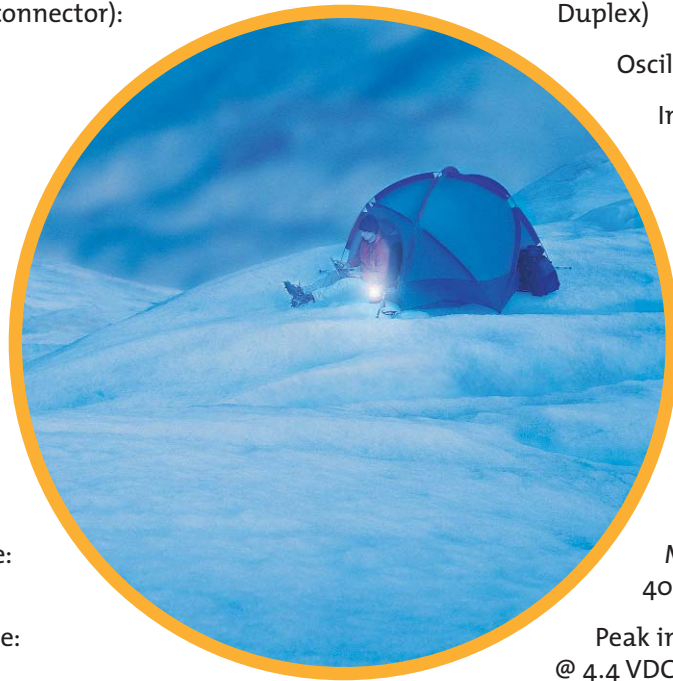
Environmental

Operating Temperature
Range: -20°C to +60°C

Operating Humidity Range:
≤ 75% RH

Storage Temperature Range:
-40°C to +85°C

Storage Humidity Range: ≤ 93% RH



RF Interface

Frequency range: 1616MHz to 1626.5MHz

Duplexing method: TDD (Time Domain
Duplex)

Oscillator stability: ± 1.5ppm

Input/output impedance: 50
Ohms

Multiplexing method:
TDMA/FDMA

DC Power Input

Main input voltage –
range: +4.0 VDC to +4.8
VDC

Main input voltage –
nominal: 4.4 VDC

Main input voltage – ripple:
40 mVpp

Peak input current (average): 1.0 A
@ 4.4 VDC

Main input active power (average): 2200 mW

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

Specifications are subject to change without notice. Additional information to that contained herein may be required in order to fully develop an operational unit incorporating the 9522A. The specifications provided here are for informational purposes only.



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