NETWORK INNOVATIONS
Communicate. Anywhere.

Iridium 9522B L-Band Satellite Transceiver

- **Pole-to-pole global coverage**
- **26-pin IDC connector**
- **RS232 serial interface**
- **SMA RF antenna connector**
- **Enables continuous circuit switched connection**
- **Connects to small omni directional L-band antennas**
- **GPS feed-through connector for shared antenna**
- **Integrated SIM card reader**
- **Enhanced AT command support**
- **DPL bus for control of external peripherals**
- **FCC, Industry Canada, and CE approval***

*** Assuming an antenna with a gain of ~3dbi.**

Iridium 9522B is ideal for sending and receiving voice and data from equipment everywhere on the planet.

Enabling Global Voice and Data

The Iridium 9522B Satellite Transceiver is Iridium's second-generation satellite transceiver for truly global voice and data communications. Compact, versatile and powerful, it's ideal for sending and receiving voice and data from equipment everywhere on the planet.

The 9522B functionally supports all of Iridium's services, including:

- Voice telephony
- Circuit switched data
- Short-burst data (SBD)
- Short message service (SMS)

A Perfect Partnership

Smaller and lighter than the 9522A, the 9522B is available to registered Iridium VAMs and VARs, and is ideal for partners who need a satellite transceiver to incorporate into a final Iridium subscriber solution for a specific application or vertical market. It easily integrates into a wide variety of applications through a RS232 serial interface and AT command set.

9522B L-Band Satellite Transceiver

The Development Deal

The 9522B can be integrated into a variety of Iridium subscriber products, or retrofitted into existing 9522A-based products. It is provided as a "black box" – core transceiver module and SIM card reader – along with a 260-way 0.1" pitch connector interface for analog audio, control/digital audio, RS232, power input and on/off. All other functions and hardware must be provided by the solution developer.

It's About Compatibility

The 9522B is a functional replacement to the 9522A, although the mechanical design and electrical connectors differ. Connection adapters are available to enable the 9522B to be used in place of the 9522A. A pass-through connector allows a GPS receiver to use the same antenna as the 9522B LBT.

Mechanical

- Length: 6.38 in (162 mm)
- Width: 3.16 in (81 mm)
- Depth: 1.10 in (28 mm)
- Weight: ~0.93 lbs (~420 g)

Environmental

- Operating Temp.: –30°C to +70°C
- Operating Humidity: 25 to 75% RH
- Storage Temp.: –40°C to +85°C
- Storage Humidity: ≤ 93% RH

RF Interface

- Frequency: 1616 to 1626.5 MHz
- Duplexing: Time Domain Duplex
- Oscillator stability: ± 1.5 ppm
- Input/output impedance: 50 Ohms
- Multiplexing method: TDMA/FDMA

DC Power Input

- Main input: +4.0 VCD to +32 VDC
- Nominal: 5 V, 12 V, 24 V
- Ripple: 40 mVpp
- Max current (call): 2.5 A @ 5 V
- Power average (call): 4W

NETWORK INNOVATIONS
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sales@networkinv.com

CA: +1.403.287.5000
US: +1.954.973.3100
UK: +44.20.8286.6768
SE: +46.8.7652670
NL: +31.40.295.3001
SG: +65.6274.0811
AU: +61.1300.140.150
SA: +27.72.062.3047

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