

Iridium 9522b

Iridium compliant device for a range of wireless data solutions.

AT Command Set for command, control and configuration of the modem.



Overview

The 9522b is an Iridium compliant communications device designed for a range of wireless data solutions. The 9522b modem provides data connectivity through asynchronous data or direct internet connections. Connections supported are Modem to Modem, Modem to PSTN, PSTN to Modem and Modem to Internet.

Asynchronous Data

When providing asynchronous data services, the modem can be interfaced directly into existing applications currently using PSTN or Cellular modems. The modem provides full duplex connectivity at a data rate of 2400bps.

It is recommended that direct modem to modem connectivity is used, as this method provides the most secure, efficient and cost effective means of communicating across the network.

Direct Internet Connection

The modem can be configured to provide a direct connection to the internet at 2400bps without the need to dial using an existing ISP via PSTN.

Once the terminal is connected it allows the full suite of IP protocols to be used including WWW, FTP, SMTP, POP3 and Telnet.

Direct internet connectivity allows customer applications to update web pages for tracking and logging applications or to update servers via email. This function also allows file transfers directly from the internet.

Details

Manufacturer:	• Iridium
Network:	• Iridium
Device Type:	• Module
Markets:	• SCADA / Telemetry • Utility • Military • OEM • Tracking • Telematics • Marine • Renewable

Technical Specs

Physical Characteristics:

- Length: 162mm / 6.38 inches
 - Width: 81mm / 3.16 inches
 - Depth: 28mm / 1.10 inches
 - Weight: 420g / 0.93lb (approx)
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DC Power Input:

- Main Input Voltage: Range +4V dc to \pm 32V dc
- Main Input Voltage: Nominal +5V, +12V, +24V dc
- Main Input Voltage: Ripple 40mV pp
- Max Current (During Call); 2.5A @ 5V dc
- Power Average (During Call): 4W

Environmental:

- Operating temperature range -30°C to +70°C
 - Storage Temperature: -40°C to +85°C
 - Operating Humidity Range: 25% to 75% Relative Humidity
 - Storage Humidity Range: <93% Relative Humidity
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RF Interface:

- Frequency Range: 1616MHz to 1626.5MHz
 - Duplexing Method: TDD
 - Oscillator Stability: \pm 1.5ppm
 - Input/ Output Impedance: 50 Ohms
 - Multiplexing Method: TDMA/ FDMA
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Iridium 9522b Capabilities:

- Voice service
- Circuit switched data service
- SBD service
- SMS
- Low uniform global latency
- Global coverage