

Iridium 9602N Transceiver

A compact, low-cost next generation SBD transceiver.

A single board core transceiver designed exclusively to support the Iridium Short Burst Data Service.



Overview

Designed for integration into complete wireless solutions, it provides the critical global data communications necessary for today's global solutions. The small size, low-cost and ease of integration make the Iridium 9602 ideal for Machine-to-Machine (M2M) solutions such as automatic vehicle location, asset monitoring, marine and personal tracking applications. 9602 leverages Iridium SBD Service.

The Iridium 9602 is designed to exclusively support Iridium's Short Burst Data Service. Authorized Iridium partners can create high value vertical market solutions using the combination of the Iridium 9602 and SBD Service's that include: low latency service, small transceiver, small antenna, and global coverage.

Iridium 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

How It Works:

The Iridium 9602 is a single-board core transceiver provided as a 'black box,' with all device interfaces provided by a single multi-pin interface connector and antenna connectors. The product only provides the core transceiver.

All other end user Field Application functions such as GPS, microprocessor-based logic control, digital and analog inputs, digital and analog input/output, power supply and antenna must be provided by the solution developer.

Details

Manufacturer:	• Iridium
Network:	• Iridium
Device Type:	• Modem
Markets:	• OEM

Technical Specs

Interface:

- Frequency range: 1616 to 1626.5 MHz
- Duplexing method: TDD Time Domain Duplex
- Input/ output impedance: 50Ω
- Multiplexing method: TDMA/ FDMA

Power Interface:

- Idle current (average): 35 mA
- Idle current (peak): 170 mA
- Transmit current (peak): 1.3 A
- Transmit current (average): 140 mA
- Receive current (peak): 170 mA
- Receive current (average): 40 mA
- SBD message transfer (average current): 150 mA
- SBD message transfer (average power): 0.8 W

Environmental Conditions:

- Operating temperature range: -40° to +85°C
- Operating humidity range: ≤75% RH
- Storage temperature: -40 to +85°C
- Storage humidity range: ≤93% RH

Mechanical:

- Length: 41.0mm
 - Width: 45.0mm
 - Depth: 13.0mm
 - Weight: 30g
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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 9602. The specifications provided herein are for informational purposes only.