

Iridium 9603 is the world's smallest commercially available two-way satellite data transceiver, designed for applications where space is at a premium—and communication is critical.



# Iridium 9603

SBD Transceiver





# Unprecedented form factor

## Small transceiver. Huge potential.

With the smallest form factor of any commercial satellite transceiver available today, Iridium 9603 is ideal for space-constrained uses, including fixed, mobile and battery powered applications.

One-fourth the volume and half the footprint of its predecessor, Iridium 9603 combines the global coverage of the Iridium satellite constellation with the low latency of the Iridium Short Burst Data (SBD) service to provide highly reliable satellite communications from pole to pole.

## Why push boundaries when you can erase them instead?

Iridium 9603 redefines the spatial possibilities of satellite communications devices, delivering significant data capabilities and good value. Bringing more

opportunities to expand the Iridium connected user base, Iridium 9603 delivers:

- 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

A single-board core transceiver, Iridium 9603 provides solution developers with the ability to integrate additional end-user functions such as GPS, microprocessor-based logic control, digital and analog inputs and outputs, power supply and antenna. The Iridium 9603 transceiver does not incorporate or require a SIM card. Its device interface consists of a serial interface, power input, network available output and power on/off control line.

Iridium 9603 shines in tight spaces, making it ideal for solutions in personnel and asset tracking, fleet management, environment and safety monitoring, and remote automation and control. Designed, certified, manufactured and sold by Iridium – and

## Key Features

- Small form factor offering unmatched integration flexibility
- Pole-to-pole global coverage
- Single-board transceiver
- Single header connector for:
  - Power
  - On/off control
  - logical level asynchronous
  - UART control
  - Network availability
- Simple AT command interface
- SIM-less operation
- Automatic notification that mobile-terminated messages are queued

compliant with industry standards in North America and Europe – it can be integrated into a variety of wireless data applications.

Iridium 9603 is uniquely designed to support the Iridium's Short Burst Data service, backed by unmatched network quality and deployed in mission critical applications, everywhere.

*Take advantage of superior coverage, performance and innovation.*



## Iridium Connected®

Iridium Connected signifies that customers are benefitting from the unsurpassed Iridium global satellite constellation, as well as from innovative, industry leading Iridium core products, such as Iridium 9603, combined with the industry and application-specific expertise of Iridium's global ecosystem of value-added partners.

When your customers are Iridium connected, they can depend on the exceptional reliability of the Iridium network and the upcoming Iridium NEXT global satellite constellation to meet and exceed critical business needs. That's the value of truly global communications.



## Specifications

### Mechanical

- Length: 31.5 mm
- Width: 29.6 mm
- Depth: 8.1 mm
- Weight: 11.4 g

### Environmental

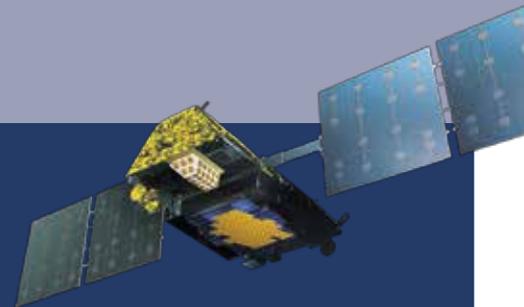
- Operating temperature range: -40°C to +85°C
- Operating humidity range: ≤ 75% RH
- Storage temperature range: -40°C to +85°C
- Storage humidity range: ≤ 93 % RH

### RF Interface

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

### Power

- Supply input voltage range: 5.0V +/- .5V DC
- Supply input voltage ripple: <40mV pp
- Idle Current (peak): 156mA
- Idle Current (average): 34mA
- Transmit Current (peak): 1.3 A
- Transmit Current (average): 145mA
- Receive Current (peak): 156mA
- Receive Current (average): 39mA
- SBD message transfer - average current: 158mA
- SBD message transfer - average power: ≤ 0.8 W



## The future of small is big

Iridium is forging ahead with its uncompromising vision for the future of global communications. Iridium NEXT, Iridium's ground-breaking next generation satellite constellation, will inspire exciting new innovations while ensuring continued high-level performance and reliability for all existing Iridium-connected solutions. With first launch scheduled for 2015, Iridium NEXT's backward compatibility will enable Iridium 9603 applications to continually unlock new opportunities and push the limits of what's possible – for years to come.

Only one communications company connects the entire globe

Iridium commands the world's furthest reaching network, making it the only truly global communications company with solutions that span from pole-to-pole. Iridium voice and data products provide superior communications solutions that allow global companies, government agencies and individuals to stay connected everywhere. With a unique, global ecosystem of partners, Iridium continues to create new, high-value capabilities that are leading the world into a new era of communication.

[www.iridium.com](http://www.iridium.com)



 **iridium**<sup>®</sup>  
Everywhere



RELIABLE · CRITICAL · LIFELINES