

Iridium 9603

With the smallest form factor of any commercial satellite transceiver available today, the Iridium 9603 is ideal for space-constrained applications including monitoring, tracking and alarm systems.

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



A single-board core transceiver, the Iridium 9603 comes in 'black box' format.

All device interfaces are provided through a single, multi-pin interface connector and an antenna connector, with additional end-user field application functions.

The Iridium 9603 transceiver does not incorporate or require a SIM card. It's device interface consists of a serial interface, power input, network available output and power on/off control line.

Small Transceiver, Huge Potential

The 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, the 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)

Designed, certified, manufactured and sold by Iridium, it can be integrated into a variety of wireless data applications or retrofitted into existing SBD-only applications that use Iridium 9522B, 9522A, 9522, 9523, 9601 and 9602 L-Band transceiver-based products.

The Iridium 9603 supports Iridium's Short Burst Data capability. It does not support voice, circuit switched data, or short message service (SMS).

Features

- Small form factor
- Pole-to-pole global coverage
- Single-board transceiver
- Single header connector for power
 - 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



Specifications

Dimensions 31.5 mm (L) x 29.6 mm (W) x 8.1 mm (D)

Weight 11.4 g

Operating Temperature -30°C to 70°C

Operating Humidity ≤75% RH

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

Storage Humidity Range ≤93% RH

Frequency Range 1616 MHz to 1626.5 MHz

Input/Output Impedance 50Ω

Multiplexing Method TDMA/FDMA

VSWR Return Loss t3:1 from 1.2 GHz to 2 GHz

Supply Input Voltage Range 5.0V +/- .2V DC

Supply Input Voltage Ripple <40mV pp

Idle Current (Average) 45mA

Idle Current (Peak) 195mA

Transmit Current (Peak) 1.5A

Transmit Current (Average) 190mA

Receive Current (Peak) 195mA

Receive Current (Average) 45m

SBD Message Transfer – Average Current 190mA

SBD Message Transfer – Average Power ≤1.0W

