The smallest and most powerful M2M solution on the market.

Iridium 9602

The Iridium 9602 is the next generation SBD unit designed for embedded applications and is ideal for machine-to-machine (M2M) solutions. The Iridium 9602 sends and receives packets of data over signaling channels making it suitable for integration into a variety of partner M2M solutions. It is a smaller size and form factor to its predecessor, the Iridium 9601 and includes a GPS pass through port for connection to a GPS antenna or receiver.

The Iridium 9602 is designed to be integrated into a wireless data application with other host system hardware and software to produce a full solution designed for a specific application or vertical market.

It is smaller, lighter, and lower cost than its predecessor, making it ideal for integration into machine-to-machine (M2M) solutions such as automatic vehicle location, asset monitoring, marine and personal tracking applications – everywhere.

How It Works

The Iridium 9602 is a single board unit designed as a 'black box' transceiver module with all device interfaces controlled by a single multi-pin interface connector in addition to the antenna connector.

As 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 outputs power supply and antenna must be provided by the solution developer.

The device interface across the user connector consists of a serial-data interface, DC power input, network available output and a power on/off control line. The Iridium 9602 does not incorporate nor require a Subscriber Identity Module (SIM) card to be inserted into the transceiver. The Iridium 9602 is intended to be used as a transceiver module fitted within another host system.

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Basic Specifications

Mechanical Dimensions

Length   41.0 mm
Width   45.0 mm
Depth   13.0 mm
Weight   3.0g

Environmental Specifications

Operating Temperature Range	-40ºC to + 85ºC
Operating Humidity Range	≤ 75% RH
Storage Temperature Range	-40ºC to + 85ºC
Storage Humidity Range	≤ 93% RH

RF Parameters

Frequency Range	1616 MHz to 1626.5 MHz
Duplexing Method TDD	(Time Domain Duplex)
Input/Output Impedance	50Ω
Multiplexing Method	TDMA/FDMA

DC Power Input

Idle Current (average)	45mA
Idle current (peak)	195mA
Transmit Current (peak)	1.5A
Transmit Current (average)	190mA
Receive Current (peak)	195mA
Receive Current (average)	45mA
SBD message transfer – average current	190mA
SBD message transfer – average power	≤ 1.0W

Features

- Single board transceiver
- Small form factor
- No SIM card
- Designed to be incorporated into an OEM solution
- RoHS compliant

Capabilities

- Global operating capability
- Maximum mobile originated message size 340 bytes
- Maximum mobile terminated message size 270 bytes

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Iridium is the world's only truly global mobile communications company, with coverage of the entire Earth, including oceans, airways and Polar Regions. Iridium voice and data products provide communications solutions that allow global companies, government agencies and individuals to stay connected, everywhere. The unique Iridium constellation of 66 Low Earth Orbiting (LEO) cross-linked satellites routes communications traffic through space and around the world, creating highly efficient and reliable connections.

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