

Iridium 9603



2023-08 v1

Real Time. Mission Critical. Truly Global.

Iridium 9603 redefines the spatial possibilities of satellite communications devices, delivering significant data capabilities. Iridium 9603 combines the global coverage of the Iridium® satellite constellation with the low latency of Iridium Short Burst Data® (SBD®) to provide highly-reliable satellite communications from pole to pole. Personnel and asset tracking, fleet management, environment and safety monitoring, and remote automation and control are optimal applications for this solution.

With the smallest form factor of any commercial satellite transceiver available, Iridium 9603 offers unmatched integration flexibility. It is ideal for space-constrained uses, including fixed, mobile, and battery-powered applications. The Iridium satellites in Low-Earth Orbit (~800 km), enable signals to travel in 1/40 the time compared to geostationary satellites (36,000 km), resulting in low-latency, ideal for IoT deployments.

- Supports Iridium Short Burst Data® (SBD®)
- Truly global two-way voice & data communications
- Smallest form factor of any commercial satellite module available
- Single-board Transceiver
- Simple AT Command Interface
- Certified in Key Geographic Markets
- SIM-less Operation



Connected. Everywhere.

IRIDIUM 9603 MODULE TECHNICAL SPECIFICATIONS

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MECHANICAL DESIGN		
Dimensions	L 31.5mm x W 29.6mm x H 8.1mm	L 1.24" x W 1.16" x H 0.31"
Weight	11.4 g	0.4 oz
ENVIRONMENTAL		
Operating Temperature Range	-40 °C to 85 °C	-40 °F to 185 °F
Operating Humidity Range	≤ 75 % RH	
Storage Temperature Range	-40 °C to 85 °C	-40 °F to 185 °F
Storage Humidity Range	≤ 93 % RH	
Vibration Standard	EN60068-2-14:2009, IEC60068-2-64:2008, EN60068-2-27:2009, and SAE J1455	
RF INTERFACE		
Frequency Range	1616 to 1626.5 MHz	
Duplexing Method	TDD (Time Domain Duplex)	
I / O Impedence	50 Ohm	
Multiplexing Method	TDMA/FDMA	
POWER		
Input Voltage Range	5.0V +/- .5V DC	
Input Voltage Ripple	< 40 mV pp	
Idle Current Average	34 mA	
Idle Current Peak	156 mA	
Transmit Current Average	145 mA	
Transmit Current Peak	1.3 A	
Receive Current Average	39 mA	
Receive Current Peak	156 mA	
Message Transfer Current	158 mA	
Message Transfer Power	≤ 0.8 W	
NETWORK		
Telephony	No	
Location Based Services	No	
Certifications	<ul style="list-style-type: none"> • ANATEL • EU • FCB Technical Acceptance • FCC Part 15 Grant and Part 25 Grant • Japan Type Approval • NRRA – Korea • REACH 201 • RoHS 	

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