

Iridium 9603

Part #: SBDN9603

Data Sheet

Iridium 9603 redefines the spatial possibilities of satellite communications devices, delivering significant data capabilities and good value. 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 for solutions in personnel and asset tracking, fleet management, environment and safety monitoring, and remote automation and control.

BENEFITS

Small Form Factor - 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.

Reliable Coverage - Solutions built using Iridium 9603 have access to the Iridium satellite network, which is enabled by a constellation of 66 Low-Earth Orbit (LEO) mobile satellites providing service anywhere on the planet.

Low Latency - 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 Internet of Things (IoT) deployments.

FEATURES

- ▶ Single-board Transceiver
- ▶ Single Header Connector for Power, On/Off Control, Logical Level Asynchronous, UART Control and Network Availability
- ▶ Simple AT Command Interface
- ▶ Certified in Key Geographic Markets
- ▶ SIM-less Operation
- ▶ Automatic Notification that Mobile-terminated Messages are Queued



MECHANICAL SPECIFICATIONS

Dimensions	31.5 mm X 29.6 mm x 8.1 mm (L x W x H)
Weight	11.4 g

POWER PARAMETERS

Supply Input Voltage Range	5.0V +/- .5V DC
Supply Input Voltage Ripple	< 40mV pp
Idle Current (Peak)	156mA
Idle Current (Avg.)	34mA
Transmission Current (Peak)	1.3 A
Transmission Current (Avg.)	145mA
Receive Current (Peak)	156mA
Receive Current (Avg.)	39mA
SBD Transfer - Avg. Current	158mA
SBD Transfer - Avg. Power	≤ 0.8 W

RF INTERFACES

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

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	- 40C to +85C
Operational Humidity	≤ 75% RH
Storage Temperature	- 40C to +85C
Storage Humidity	≤ 93% RH

REGULATORY STANDARDS AND COMPLIANCE*

US (FCC), EU (CE Mark)

** For complete information on local in-country approvals, refer to an authorized Iridium Service Provider.*

