Iridium 9602

Part #: SBDN9602

Data Sheet

Iridium 9602 redefines the spatial possibilities of satellite communications devices, delivering significant data capabilities and good value. Iridium 9602 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 a very small form factor, Iridium 9602's robust design makes it ideal for solutions in personnel and asset tracking, fleet management, environment and safety monitoring, and remote automation and control. It is ideal for space-constrained uses, including fixed, mobile, and battery-powered applications.

Reliable Coverage - Solutions built using the Iridium satellite network are enabled by a constellation of 66 Low-Earth Orbit (LEO) mobile satellites that provide 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

- GPS Module Antenna Feed for Shared Antenna Applications
- RoHS Compliant
- Single Header Connector for Power, On/Off Control, Logical Level Asynchronous, UART Control & Network Availability
- XXMC Connector for Small Omni-directional L-band Antennas
- Certified in Key Geographic Markets

  Simple AT Command Interface

iridium®

MECHANICAL SPECIFICATIONS

Dimensions	41.0 mm X 45.0 mm x 13.0 mm (L x W x H)
Weight	30.0 g

POWER PARAMETERS

Idle Current (Peak)	170mA
Idle Current (Avg.)	35mA
Transmission Current (Peak)	1.3 A
Transmission Current (Avg.)	140mA
Receive Current (Peak)	170mA
Receive Current (Avg.)	40mA
SBD Transfer - Avg. Current	150mA
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.*