Iridium Core 9523
Part #: IRIDN0125, IRIDI0425 (PTT)

The Iridium Core 9523 advanced voice and data satellite transceiver module is small, light and powerful. Its compact footprint and simple connections offer our partners new opportunities to integrate Iridium® directly on their printed circuit boards (PCB) and develop products that meet the needs of previously unreached consumer and vertical markets like never before.

BENEFITS

Small Form Factor - Small but powerful, Iridium Core 9523 supports all Iridium narrowband voice and data services. Incredibly compact and lightweight, the Iridium Core 9523 embedded module drives innovation and helps meet the needs of underserved markets around the globe.

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

- ▶ Single-board Transceiver
- ▶ Voice and Circuit Switched Data Capable, Plus Larger Short Burst Data® (SBD®) Message
- ▶ capability Iridium Push-To-Talk Capable
- ▶ Certified in Key Geographic Markets
- ▶ Direct PCB Integration
- ▶ SMS
- ▶ LBS

MECHANICAL SPECIFICATIONS

Dimensions	70.44 mm X 36.04 mm (L x W)
Reservoir Capacitors	14.6 mm (H)
Screen Can	8.9 mm (H)
Weight	32.0 g

POWER PARAMETERS

VBAT Input Nominal Voltage	3.7V
VBAT Input Input Specs	3.2V to 6V
VBAT Input Max Current	500 mA
VBOOST Input Nominal Voltage	27V
VBOOST Input Max Voltage	35V
VBOOST Input Max Current	1 A
VBOOST Avg. Consumption	2.3 W
VBOOST Max Consumption	3.1 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	- 30C to + 70C
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.

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