Wireless innovation

Product Datasheet

Iridium 9523N

Iridium's smallest, lightest and most advanced voice and data transceiver module.
9523 enables simplified global voice and data connectivity through the world's furthest reaching satellite network.

Overview

Over 90% more compact than the previous model and featuring standardized connectors, the Iridium 9523N easily integrates into new partner products to reach previously under-served consumer and vertical markets - and drive global communications in ways never thought possible. From single or multi channel communication platforms for maritime, aviation and land mobile markets to highly capable, feature-enhanced handheld smart devices and unattended sensors, the Iridium Core 9523N module delivers cost effective satellite voice and data communications.

- **FEATURES**
- Iridium Core 9523N supports all Iridium voice and data services. It delivers the capability needed to develop innovative communications devices, and the technology backbone for applications such as GPS and location based services, Wi-Fi and Bluetooth.
- Iridium Core 9523N features standardized connectors, simplified PCB integration and ultra compact form factor. Partners can easily mount Iridium Core 9523N directly onto their application board - enabling optimization through shared components and power sources.

Details

Manufacturer:	• Iridium
Network:	• Iridium
Device Type:	• Module
Markets:	• OEM • SCADA/Telemetry • Tracking • Utility • Military

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TECHNICAL SPECIFICATIONS

DC Power Input:

VBAT Power Input Specifications

- Nominal Voltage +3.7 V
- Voltage Limits +3.2 V to +6 V
- Maximal Current 500 mA
- VBAT Typical Current Nominal +3.7 V
- Standby Current 70 mA
- Peak Current during Call 300 mA
- Average Current during Call 110 mA

VBOOST Power Input

- Nominal Voltage +27 V
- Absolute Maximal Voltage +35 V
- Max Recommended Voltage +32 V
- Min Voltage during Call Transmit Burst +10.5 V
- Max Current 1 A

VBOOST Power Consumption

- Typical Average Power during Call 2.3 W
- Max Average Power during Call 3.1 W

Environmental:

- Operating Temp. -30°C to + 70°C
- Operating Humidity ≤ 75% RH
- Storage Temp. -40°C to + 85°C
- Storage Humidity ≤ 93 % RH

RF Parameters:

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

Mechanical:

Technical Specs

- Length 70.44 mm
- Width 36.04 mm
- Height 14.6 mm (reservoir capacitors) 8.9 mm (screen can)
- Weight 32g

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