

Iridium® 9602



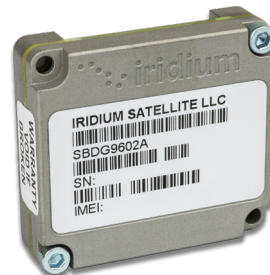
2024-04 v4

Real Time. Mission Critical. Truly Global. - Small, But Mighty.

Iridium® 9602 redefines the spatial possibilities of satellite communications devices, delivering significant data capabilities. Iridium 9602 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 ideal applications for this solution.

With a very small form factor, the Iridium 9602 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.

- **Single Board Module**
- **Location Based Services**
- **No Sim Card**
- **XXMC Connector**
- **Supports Iridium Short Burst Data® (SBD®)**
- **Extremely Small Form Factor**
- **RoHS Compliant**



Connected. Everywhere.

IRIDIUM 9602 MODULE TECHNICAL SPECIFICATIONS

2024-04 v4

MECHANICAL DESIGN		
Dimensions (L x W x H)	41 x 45 x 13mm	1.61 x 1.77 x 0.51"
Weight	30 g	1.05 oz
ENVIRONMENTAL		
Operating Temperature Range	-40 to 85 °C	-40 to 185 °F
Operating Humidity Range	≤75 % RH	
Storage Temperature Range	-40 to 85 °C	-40 to 185 °F
Storage Humidity Range	≤93 % RH	
Vibration Standard	EN60068-2-14:2000, EN60068-2-36:1996, EN60068-2-27:1993, and J1455	
RF INTERFACE		
Duplexing Method	TDD (Time Domain Duplex)	
I / O Impedence	50 Ohm	
Multiplexing Method	TDMA/FDMA	
POWER		
Idle Current Average	45 average mA	
Idle Current Peak	170 peak mA	
Transmit Current Average	140 average mA	
Transmit Current Peak	1.3 peak A	
Receive Current Average	40 average mA	
Receive Current Peak	170 peak mA	
Message Transfer Current	150 average mA	
Message Transfer Power	≤0.8 average W	
NETWORK		
Telephony	No	
Location Based Services	No	
Certifications	• ANATEL • EU • FCB Technical Acceptance • FCC Part 15 Grant and Part 25 Grant • Japan Type Approval • NRRA – Korea • REACH 201 • RoHS	

Iridium has updated the Iridium 9602(N) and Iridium 9603(N) transceivers due to part substitutions for End-of-Life and supply chain constraints. The updated versions include factory-installed firmware TA21004 on the Iridium Short Burst Data (SBD) modules, which cannot be downgraded. Regulatory classifications and approvals remain unchanged. The chipset configuration has been updated to the GEM-2001 ASIC, resulting in an ASIC pin layout change. This is the same type of change we saw when Iridium initially introduced us to the “N” version of their transceivers.

- Old ASIC: SRA-1401, proprietary and manufactured by Iridium.
- New ASIC: GEM-2001, proprietary and manufactured by Iridium.

FCC ID: Q639603N (remains unchanged) IC ID: 4629A-9603N (remains unchanged)

These changes took effect in late 2023. The device remains identical, serving as a drop-in replacement in all aspects—physical, electrical, etc.

The new part numbers for the updated units are: 9602(N): SBDG9602A, 9603(N): SBDG9603A

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