

Iridium 9523 Transceiver

The Iridium Core 9523 module is Iridium's smallest, lightest and most advanced voice, data, SMS and Short Burst Data (SBD) satellite transceiver in a compact form factor, enabling simplified global voice and data connectivity through the world's furthest reaching network.

Iridium 9523 Transceiver LBT9523



The 9523 is ideal for integrators who need a very compact satellite transceiver to incorporate into an integrated solution for a specific application or vertical market.

Over 90% more compact than the 9522b model and featuring standardized connectors, it easily integrates into new partner products to reach previously under-served consumer and vertical markets.

KEY FEATURES

- Ultra compact form factor
- Pole-to-pole global coverage
- Voice, SMS and Circuit Switched Data capable
- Single board transceiver
- Simple AT Command Set
- Iridium DPL communications
- Iridium Push-To-Talk capable
- Direct PCB integration
- Larger SBD message capability
- FCC, Industry Canada, and ITU approval
- 12 month repair or replacement warranty



data



voice

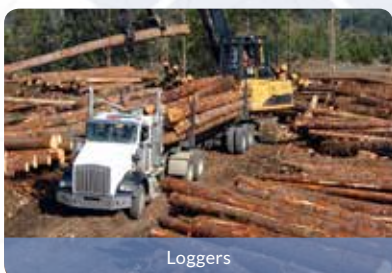


sbD



sim

APPLICATIONS



Loggers



Data Applications



Access Controllers

Technical Specifications

PHYSICAL		
Dimensions	mm	inches
Length	70.44	2.77
Width	36.04	1.42
Height from FA board (reservoir capacitors)	0.42	0.93
Height from FA board (screening can)	8.9	0.35
Weight	kgs	lbs
Unit	0.032	0.07

VBOOST POWER INPUT	
Minimum Voltage when capacitors are charged	+27 V
Absolute Maximum Voltage	+35 V
Maximum Recommended Voltage	+32 V
Minimum Voltage during Call Transmit Burst	+10.5 V
Maximum Current into VBOOST pins	1 A

VBOOST POWER CONSUMPTION	
Typical Average Power during Call	2.3 W
Maximum Average Power during Call	3.1 W

ENVIRONMENTAL		
Temperature	Degrees °C	Degrees °F
Operating Temperature	-30° to +70°	-22° to +158°
Storage Temperature	-40° to +85°	-22° to +185°
Operating Humidity	≤ 75% RH	
Storage Humidity Range	≤ 93% RH	

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

DC POWER INPUT	
VBAT	Power Input
Nominal Voltage	+3.7 V
Voltage Limits	+3.2 V to +6 V
Maximal Current	500mA
VBAT	Power Input
Standby Current	70 mA
Peak Current during Call	300 mA
Average Current during Call	110 mA

Physical Specifications

