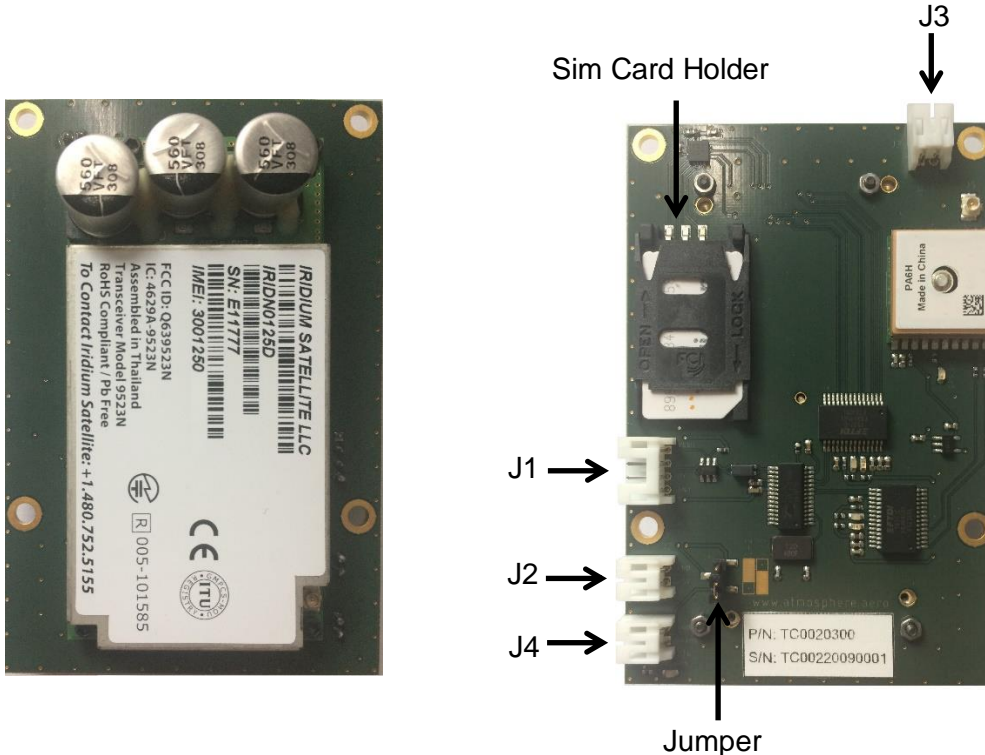


Iridium 9523 Integration Board (Raspberry Pi Form Factor) Technical Specifications



Functional Description

The Iridium 9523 Integration Board TC002 is a Raspberry Pi format card which enables to integrate Iridium Modem 9523 with its sim card holder. It also includes a GPS receiver for timing and location.

Application

The Iridium Integration Board is designed for use of Iridium data connectivity in embedded applications. Additional software package enables IP connectivity with QoS management on Iridium 9523.

Mechanical Characteristics

Raspberry Pi Format (85 x 56mm), 60g

Order Information

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J1 – USB Connector

Connector: JST, S4B-PH-K-S, 4-way.

Mating Socket: JST, PHR-4, 4-way.

Pin No.	Signal Name	Signal Function
1	+5V	+5V (USB)
2	D-	Data – (USB)
3	D+	Data + (USB)
4	0V	Ground (USB)

J2 – Power Connector (VBat)

Connector: JST, S2B-PH-K-S, 2-way.

Mating Socket: JST, PHR-2, 2-way.

Pin No.	Signal Name	Signal Function
1	VBat	+5V (Voltage source)
2	GND	Ground

J3 – Power Connector (VBoost)

Connector: JST, S2B-PH-K-S, 2-way.

Mating Socket: JST, PHR-2, 2-way.

Pin No.	Signal Name	Signal Function
1	VBoost	10.5 – 32V (Boost voltage for transmission)
2	GND	Ground

J4 – Enable Modem (Trxon)

Connector: JST, S2B-PH-K-S, 2-way.

Mating Socket: JST, PHR-2, 2-way.

Pin No.	Signal Name	Signal Function
1	Trxon	Enable modem power regulators
2	GND	Ground

If the jumper is in position 1-2, Trxon is linked to VBAT. The modem is powered.

If the jumper is in position 2-3, Trxon is linked to J4 and is waiting for high level to enable the modem.