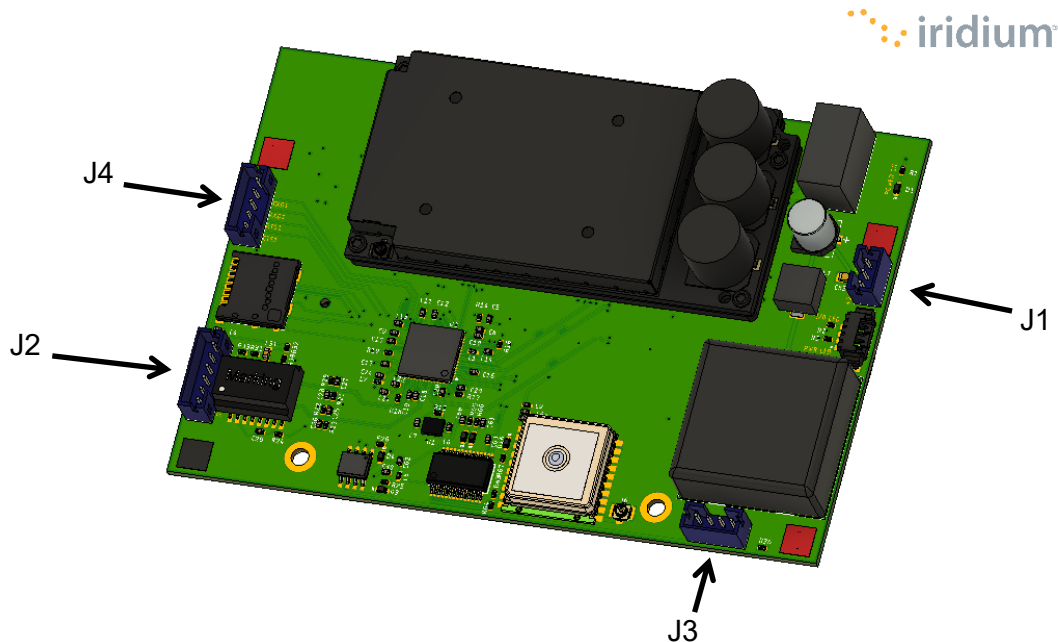


PLANET 9523 OEM TC06 Class 1 Board Technical Specifications



Functional Description

PLANET 9523 OEM TC06 is a mobile Iridium satellite connectivity board. It integrates a 9523N Iridium Modem with its SIM card holder. The board is based on an ARM processor and includes an SD card providing up to 512Gb of data storage (128Gb default). A GPS receiver provides autonomous timing and location. The board is also fitted with an environmental sensor (Pressure, Temperature, and Humidity). The board supports Ethernet, USB and serial interface.

Application

The PLANET 9523 OEM TC06 Class 1 board is designed for use of Iridium data connectivity in embedded applications. Networking software enables IP connectivity on Iridium infrastructure. The PLANET 9523 OEM TC06 class 1 board is delivered with PLANET Router software, and can optionally run PLANET Application software.

Features

- Iridium Certified Product
- Operating Temperature: -25°C to +70°C

Power requirements

Power supply: 9.0 $\Rightarrow$ 36VDC
 Average Consumption: 600mA@12VDC
 Peak Consumption: 4.5A@12VDC/6A@9VDC

Mechanical Characteristics

- Dimensions: 112 x 74 mm
- Weight: 90g

Order Information

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J1 – Power Connector

Connector: JST, S3B-PH, 3-way

Mating Socket: JST, PHR-3, 3-way

Pin No.	Signal Name	Signal Function
1	GND	Ground
2	0V	Shield
3	V+	9 – 36V

J2 – Ethernet Connector

Connector: JST, S6B-PH, 6-way

Mating Socket: JST, PHR-6, 6-way

Pin No.	Signal Name	Signal Function
1	TX-	Transmit Data -
2	NC	NC
3	TX+	Transmit Data +
4	RX-	Receive Data -
5	NC	NC
6	RX+	Receive Data +

J3 – USB Connector

Connector: JST, S4B-PH, 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	GND	Ground (USB)

J4 – Serial Connector

Connector: JST, S5B-PH, 5-way

Mating Socket: JST, PHR-5, 5-way

Pin No.	Signal Name	Signal Function
1	GND	GND
2	TX	Transmit Data Output (TTL)
3	RX	Receive Data Input (TTL)
4	RTS	Request To Send (TTL)
5	CTS	Clear To Send (TTL)