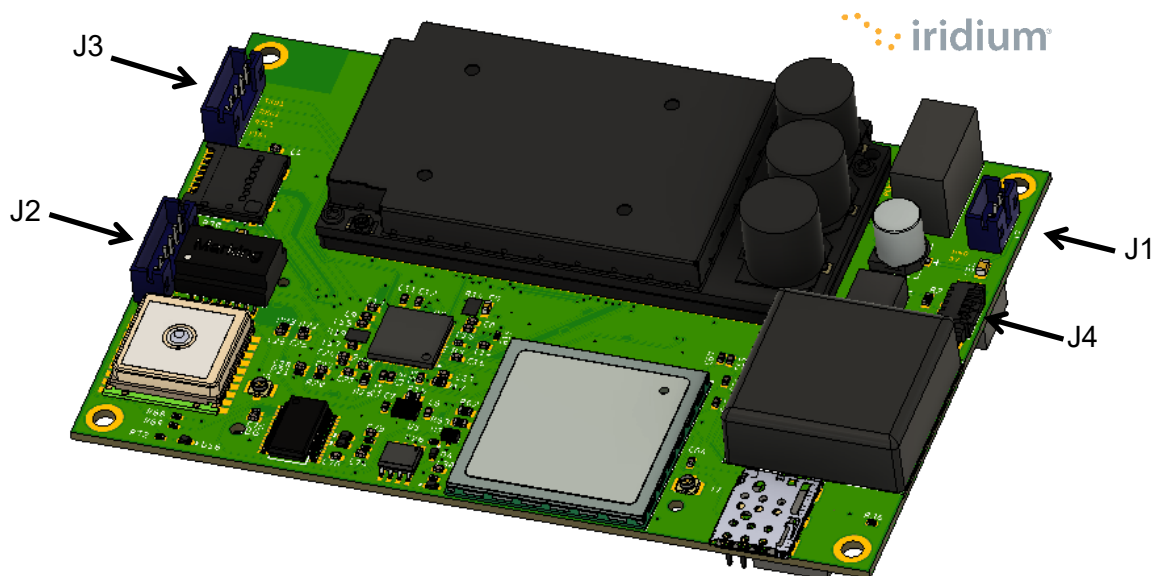


PLANET 9523 OEM TC06 Class 2 Board Technical Specifications



Functional Description

PLANET 9523 OEM TC06 Class 2 board is a mobile Iridium Satellite and LTE connectivity board. It integrates a 9523N Iridium Modem and a Telit LTE Modem with their SIM card holders. 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 supports Ethernet, USB and WIFI connectivity. The board is optionally fitted with an ADS-B receiver, and environmental sensors (Pressure, Temperature, and Humidity).

Application

The TC06 Class 2 board is designed for use of Iridium and LTE data connectivity in embedded applications. Networking software enables IP connectivity on Iridium and LTE infrastructure. The board provides data rates up to 50Mbps with LTE and 2.4kbps with Iridium. The PLANET 9523 OEM TC06 Class 2 board is delivered with PLANET Router software and can run PLANET Application software (option).

Features

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

Power requirements

Power supply: 9.0 ⇒ 36VDC
 Average Consumption: 700mA@12VDC
 Peak Consumption: 4.5A@12VDC/6A@9VDC

Mechanical Characteristics

- Dimensions: 112 x 76 mm
- Weight: 120g

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	0V	Shield
2	GND	Ground
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	RX+	Receive Data +
2	NC	NC
3	RX-	Receive Data -
4	TX+	Transmit Data +
5	NC	NC
6	TX-	Transmit Data -

J3 – Serial Connector

Connector: JST, B5B-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)

J4 – Power & Status Led Connector

Connector: Molex, 53261-0471, 4-way
 Mating Socket: Molex, 51021-0400, 4-way

Pin No.	Signal Name	Signal Function
1	GND	Ground
2	+3V3	Power Led
3	GND	Ground
4	GPIO13 +3V3	Internal Status Signal