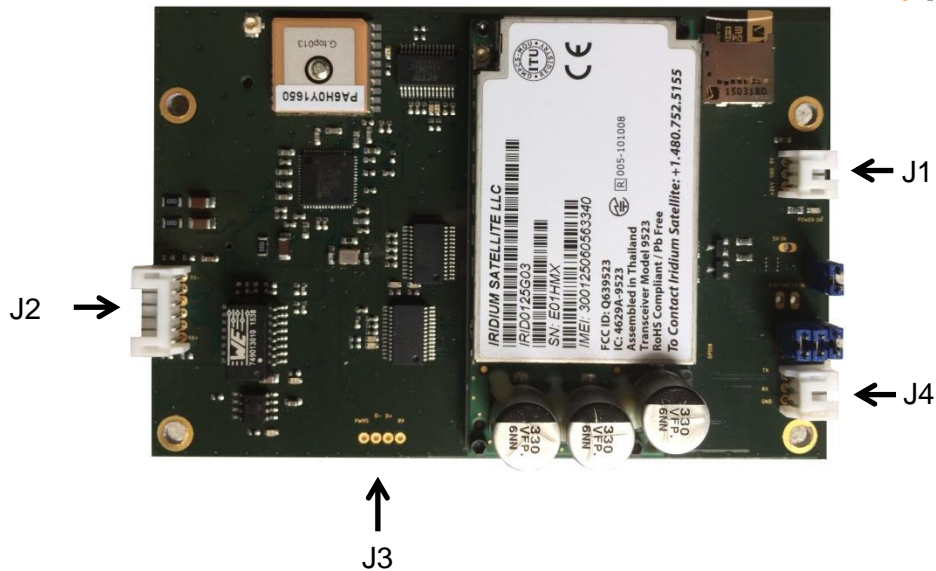


PLANET Terminal TC05 Board Technical Specifications



Functional Description

The TC05 board is a mobile Iridium satellite connectivity terminal. 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. A GPS receiver provides autonomous timing and location. The board is also fitted with an environmental conditions sensors (Pressure, Temperature, and Humidity). The board supports Ethernet, USB and serial interface.

Application

The PLANET Terminal TC05 board is designed for use of Iridium data connectivity in embedded applications. Networking software enables IP connectivity with QoS management on Iridium infrastructure. Several boards can also be bundled to increase throughput (N x 2.4kbps). The TC05 board is delivered with PLANET embedded application, including video/image compression and transmission functions, and offers the possibility to host third party software.

Features

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

Power requirements

Power supply: 9.0 ⇒ 36VDC
 Average Consumption: 600mA@12VDC
 Peak Consumption: 2A@12VDC

Mechanical Characteristics

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

Order Information

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 31520 Ramonville
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 82234 Wessling
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J1 – Power Connector

Connector: JST, S2B-PH, 2-way
Mating Socket: JST, PHR-2, 2-way

Pin No.	Signal Name	Signal Function
1	V+	10.5 – 30V
2	GND	Ground
3	0V	Shield

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 – 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, S3B-PH, 3-way
Mating Socket: JST, PHR-3, 3-way

Pin No.	Signal Name	Signal Function
1	Tx	Transmit Data Output (TTL)
2	Rx	Receive Data Input (TTL)
3	GND	GND

Options:

Possibility to add other interfaces (USB, RS232, I2C, Discrete I/O), communication modules (WIFI, LTE) or sensors (ADS-B, Accelerometer).