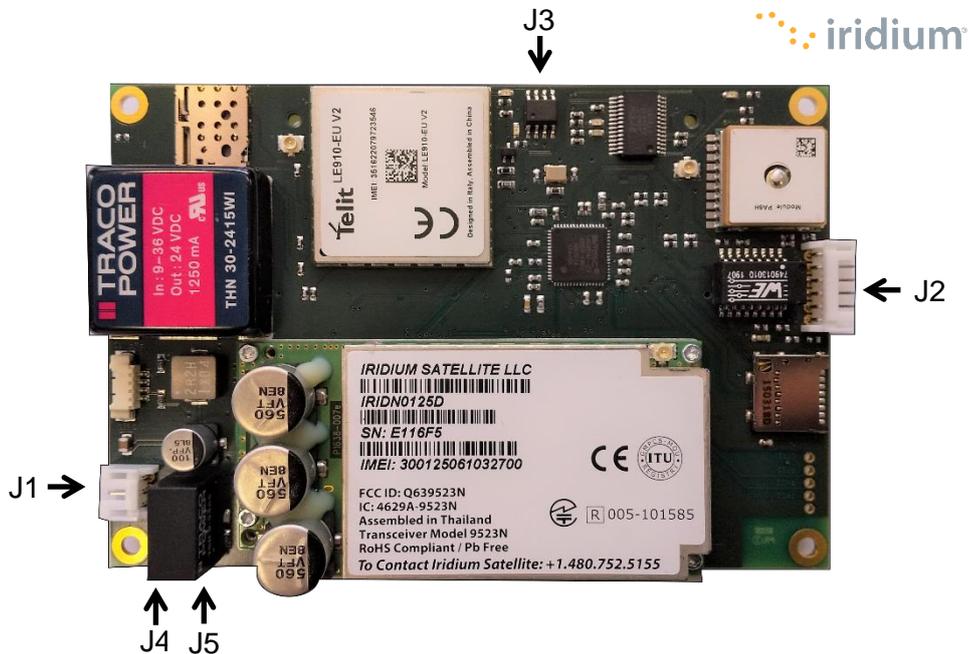# PLANET Terminal TC06 Board
Technical Specifications

Functional Description

The TC06 is a mobile Iridium Satellite and LTE connectivity terminal. 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. A GPS receiver provides autonomous timing and location. The board is also fitted with an ADS-B receiver, an inertial sensor and environmental conditions sensors (Pressure, Temperature, and Humidity). The board supports Ethernet, USB and WIFI connectivity.

Application

The PLANET Terminal TC06 board is designed for use of Iridium and LTE data connectivity in embedded applications. Networking software enables IP connectivity with QoS management on Iridium and LTE infrastructure. The board provides data rates up to 50Mbps with LTE and 2.4kbps with Iridium. Several boards can also be bundled to increase throughput. The TC06 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

Mechanical Characteristics
-   Dimensions: 112 x 76 mm
-   Weight: 96g

Power requirements
Power supply: $9.0 \Rightarrow 36VDC$
Average Consumption: 700mA@12VDC
Peak Consumption: 2A@12VDC

Order Information
ATMOSPHERE Sarl (France),
14 Avenue de l'Europe,
31520 Ramonville
Tel : (+33) 5 67 73 38 63

ATMOSPHERE GmbH (Germany),
 Argelsrieder Feld 22,
 82234 Wessling
 Tel: (+49) 8153 88678-255

Mail : sales@atmosphere.aero

J1 – Power Connector

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

Connector: JST, B2B-PH, 2-way
Mating Socket: JST, PHR-2, 2-way

Pin No.	Signal Name	Signal Function
1	GND	Ground
2	+3V3	Power Led

J5 – Status Output Connector

Connector: JST, B2B-PH, 2-way
Mating Socket: JST, PHR-2, 2-way

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