

## PLANET Terminal – Technical Specifications



### Functional Description

The PLANET Terminal is a light equipment that enables mobile communication on the ground, in the air, or at sea, using Iridium satellite constellation or cellular networks.

The PLANET Terminal acts as a universal mobile router equipment for Autonomous Vehicles connectivity, or for real-time Critical Mission data exchange. Its unique link control software provides optimal QoS management. The terminal can route generic IP packets and supports remote platform control protocols such as MAVLINK over serial ports.

Additional embedded application software provides added value functions such as tracking, messaging and weather data exchange. PLANET web user interface enables access to the service to any connected device such as tablet, laptop or desktop.

The PLANET Terminal operates over a wide range of input voltage (10.5-32VDC) and is interfaced with external processors through Ethernet, Serial or Wifi link. The Terminal integrates its own Iridium satellite antenna. It can also be connected to an external antenna. It has an extensive storage capacity (SD Card), and includes a GPS receiver for autonomous timing and location. Additional sensors can also be integrated: ADS-B, Inertial, Pressure.

#### Features

- Fanless ARM Processor Board
- Linux OS
- Memory: 128GB
- Operating Temperature: -25°C to +70°C
- No internal battery

#### Power requirements

Power supply: 10.5 ⇒ 32VDC  
 Max Consumption: 600mA@12VDC

#### Mechanical Characteristics

- ABS Case
- Enclosure: 180 x 100 x 30 mm
- Weight: 250g

#### Connectivity & Sensing

- Iridium 9523 Modem
- Cellular Modem
- Wifi Module
- GPS receiver
- Sensors : ADS-B, Inertial, Pres. (options)

#### Order Information

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

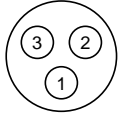
ATMOSPHERE GmbH (Germany),  
 Argelsrieder Feld 22,  
 82234 Wessling  
 Tel: (+49) 8153 88678-255

Mail: [contact@atmosphere.aero](mailto:contact@atmosphere.aero)

## Interfaces and Connectors

### J1 – Power Connector

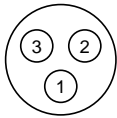
Connector: EGG.0B.303.CLL  
 Mating Socket: FGG.0B.303.CLAD52Z



Pin No.	Signal Name	Signal Function
1	V+	10.5 – 32V
2	V-	0V
3	GND	Shield

### J2 – Serial Link Connector

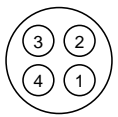
Connector: EGG.0B.303.CLL  
 Mating Socket: FGG.0B.303.CLAD52Z



Pin No.	Signal Name	Signal Function
1	Rx	Data from Modem (LVTTTL)
2	Tx	Data to Modem (LVTTTL)
3	V-	0V

### J3 – Ethernet Connector

Connector: EGG.0B.304.CLL  
 Mating Socket: FGG.0B.304.CLAD52Z



Pin No.	Signal Name	Signal Function
1	Rx+	Receive Data +
2	Rx-	Receive Data -
3	Tx+	Transmit Data +
4	Tx-	Transmit Data -

### J4 – GPS Connector (Optional)

SMA Female

### J5 – Iridium External Antenna Connector (Optional)

SMA Female