
PILEUS

Technical specification

Version 1.03
Mai 2nd 2015

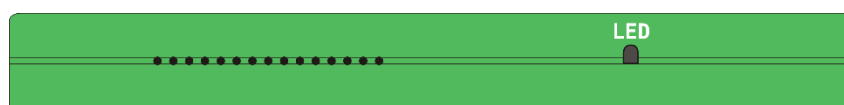
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Device Connectors & Pin Assignment

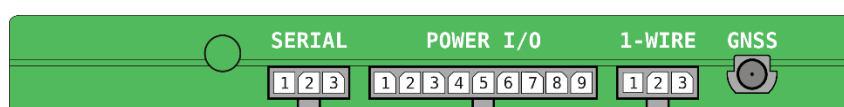
Front View



LED Status Indicator

Color	Status	Remarks
Red	Booting	duration about 30 sec.
Green	GPS fix received	duration about 30 sec.

Back View



SERIAL RS232 Connector

Pin#	Signal Name	Description	I/O	Remark
1	TxD	RS-232 Data Output	O	
2	RXD	RS-232 Data Input	I	
3	GND	Signal Ground	GND	Signal Ground

POWER / I/O Connector

Pin#	Signal Name	Description	Color	Remark
1	GND	Signal Ground	Black	
2	PWR	Power	Red	DC Vin = +6.8 ~ +32V
3	DIN1/Ignition	Ignition / Input 1	Green	DC Vin = +5 ~ +32V
4	DIN2	Input 2	Violet	DC Vin = +5 ~ +32V
5	Output 1	Open-Collector 1	Blue	I _{max} = 150mA
6	CANH	CAN high	Yellow	RDL
7	CANL	CAN low	Grey	RDL
8	NC	Not connected		
9	NC	Not connected		

1-Wire Connector

Pin#	Signal Name	Description
1	PWR	1-Wire Power
2	Data	1-Wire Data
3	GND	Ground

GNSS Connector

Pin#	Signal Name	Description	Remark
MCX	GNSS	GPS/GLONASS antenna	Optional



Technical Specification

Characteristics

Dimensions (L x W x H) 112mm x 61mm x 13mm

Weight 70g

GSM / GPRS

Frequency Quad-Band GPRS multi slot

GSM Antenna Internal

Other functions Jamming detection

GPS/Glonass

Frequency bands GPS L1, GLONASS L1, QZSS L1

Sensitivity (tracking/acquisition) -166dBm / -147dBm

GNSS Antenna Internal

Connector MCX (external Antenna optional)

GPS Protocol NMEA 0183 Ver3.0

Other functions Jamming detection, 2 trip distance counters

Onboard Components

CPU ARM 7 32-bit / 50 MHz

Memory 5MB RAM / 10MB Flash

Acceleration Sensor +/-16g, 3D sensor, movement detection and wake-up

Led Indicator Bi-Color status indicator

Interface I/O

Serial Connectors 1x RS-232 Ports

Input Ports 2x (1x Ignition, 1x configurable)

Output Ports 1x (150mA)

1-Wire 1x iButton (Driver identification)

Electrical

Power Source DC 6.8V to 32V (nominal +12V)

Typical < 100 mA

Max (peek) 1A / < 1s

Stand by < 3mA (< 1mA from internal battery)

Operating Conditions

Full performance -30 °C to +70 °C

Degraded communication -40 °C to +85 °C

Internal battery charge 0 °C to +45 °C

Internal battery operating -5 °C to +60 °C

Humidity 95% max

Internal Battery

Rechargeable Backup Battery 200mAh Li-Ion, support up to 100 hours (based on data transmission every 4 hours)

Disclaimer Notes

General

This LOSTnFOUND® PILEUS Series device works solely based on the GSM (Global System for Mobile communication) & GNSS (Global Navigation Satellite System) coverage (GPS & GLONASS). Thus, its functionalities solely rely on the availability of the network coverage. The manufacturer, its subsidiaries, authorized dealers, distributors and installers do not warrant the operation of this device will be not interrupted or error-free.

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