
LENTICUS*light*

Technical specification

Version 1.0
July 1st 2013

support@lostnfound.com

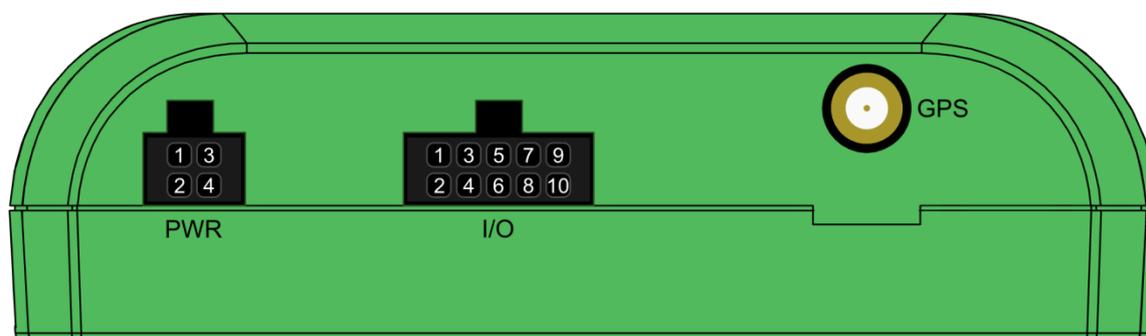
Copyright © 2013 LOSTnFOUND® - All rights reserved.
All specifications are subject to change without prior notice.



Device Connectors & Pin Assignment

Front View

PWR	Power Connector for Car Battery
I/O	Input/Output Connector
GPS	SMA Connector for external GPS Antenna



PWR Connector

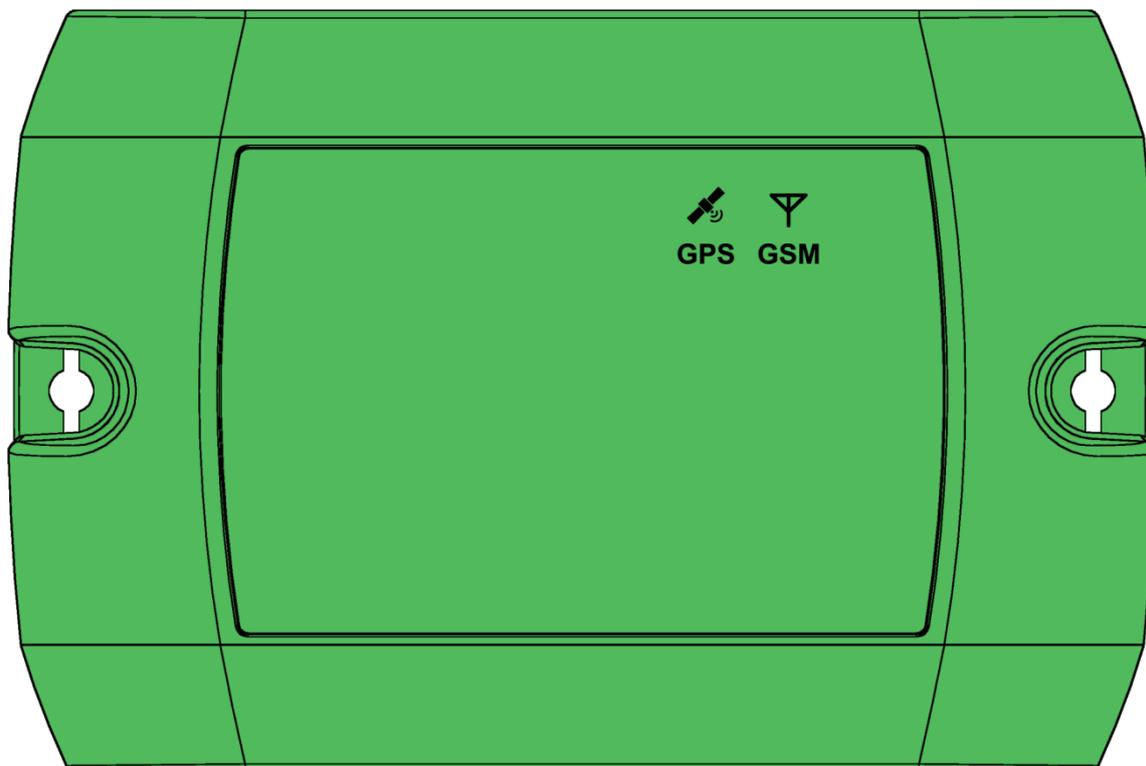
Pin#	Signal Name	Description	I/O	Remark
1	DC IN	Power supply input	I	DC Vin = +8 ~ +30V
2	GND	Signal ground	—	
3	Ignition	Ignition (ACC) Input	I	DC Vin = +30 ~ +7V (Active high)
4	Output1	Open-Collector Output 1	O	I _{max} = 300mA

I/O Connector

Pin#	Signal Name	Description	I/O	Remark
1	Output 2	Open-Collector Output 2	O	I _{max} = 300mA
2	GND	Signal Ground	—	
3	Input 2	Positive Trigger Input 2	I	DC VIN = +30V ~ +7V (Active high)
4	Input 1	Negative Trigger Input 1	I	DC VIN = +6V ~ 0V (Low Active)
5	NC	Not Connected		
6	Analog Input 1	Analog Input 1	I	DC VIN = +30V ~ 0V
7	NC	Not Connected		
8	NC	Not Connected		
9	NC	Not Connected		
10	NC	Not Connected		

Top view

GPS LED Indicator
 GSM LED Indicator



GPS LED Indicator

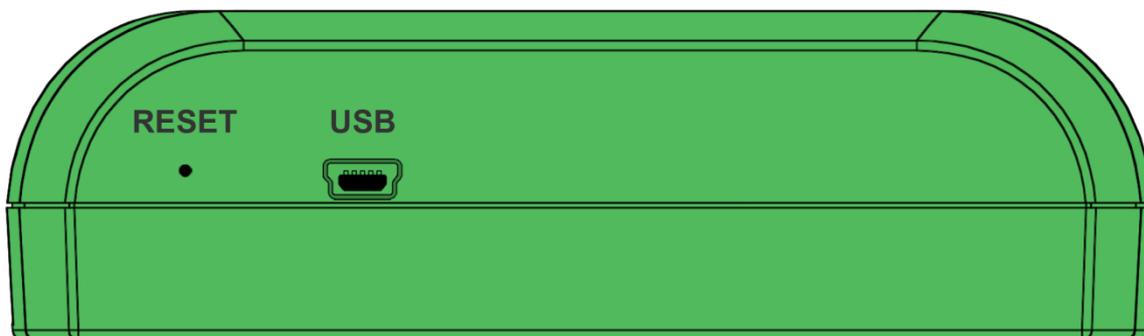
Power Mode	GPS Status	GPS LED
Power Off	N/A	Off
Low Power	N/A	Off
Full Power	Acquiring	Flash Red (5x / sec.)
Full Power	Tracking	Solid Red

GSM LED Indicator

Power Mode	GSM/GPRS Status	GSM LED
Power Off	N/A	Off
Low Power	N/A	Off
Full Power	Acquiring	Flash Red (3x / sec.)
Full Power	Registered	Solid Red

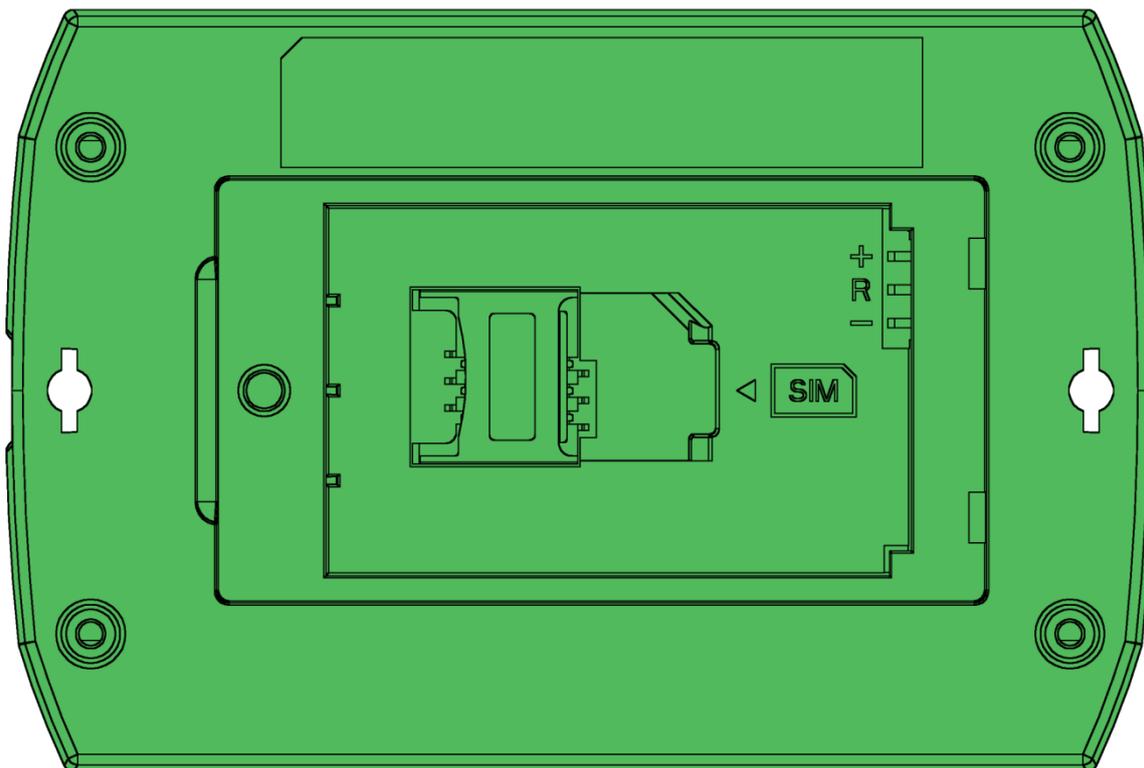
Rear View

Mini USB Connector Do not use until advised by LnF Customer Service
RESET Hardware Reboot Button (Pinhole)



Bottom view

SIM Card Do not remove until advised by LnF Customer Service
Backup Battery Compartment



Technical Specification

Characteristics

Dimensions (L x W x H)	72mm x 108mm x 31mm
Weight	165g

Radio Performance

Frequency	Quad-band 850/900/1800/1900MHz
-----------	--------------------------------

GSM Functionality / GPRS

GPRS Mode	Multi-slot Class 10
GPRS Coding Scheme	CS1,CS2,CS3 and CS4
GSM Antenna	Internal
SIM Interface	SIM Card 1.8V, 2.9V Supported

GPS Functionality

Receiver	50 Channels
Sensitivity (Tracking)	-160dBm
Antenna Type	External GPS Active Antenna, 3.3V
Connector	SMA Female
GPS Protocol	NMEA 0183 Ver3.0

Onboard Components

MCU	32-bit Microcontroller
Data Memory	8MB Flash
Motion Sensor	3-axes Acceleration Sensor
Led Indicator	GPS and GSM Indicator

Interface I/O

I/O Connector	1 Connector, 10 Pins
Serial Connector	n/a
Input Ports	Positive Triggers: 2 Negative Trigger: 1 Analog Input: 1 (0~30V, 12 Bits)
Output Ports	Negative Triggers: 2 (300mA)

Electrical

Power Source	DC 8V to 30V
Power Consumption	72mA @ 12V (Operating Mode) 8mA @ 12V (Standby Mode) 6mA @ 12V (Deep Sleep Mode)

Environment

Operating Temperature	-20 °C to +70 °C (Without Backup Battery) -20 °C to +60 °C (With Backup Battery)
-----------------------	---

Battery

Rechargeable Backup Battery	1050mAH , support up to 100 hours (based on data transmission every 4 hours)
-----------------------------	--

Disclaimer Notes

General

This LOSTnFOUND® LENTICUS Series device works solely based on the GSM (Global System for Mobile Communication) & GPS (Global Positioning Satellites) Coverage. 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.

In no event will the manufacturer, its subsidiaries, authorized dealers, distributors, dealer and installers shall be liable for any general, special, incidental, or consequential damages and losses due to any cause of operation of the device or any failure of the device to perform, including any lost, expenses, cost incurred or suffered whether caused directly or indirectly or arising from the function or malfunction of the device.

Liability exemptions statement

All the information included in this manual was produced with great caution, but there may still be some errors and mistakes. The supplier or retailer will not be held responsible for any errors and mistakes.

As we cannot control users understanding of this manual, therefore the supplier or retailer will not be held responsible for any accident or other loss caused by misunderstanding of this manual. We shall not be held responsible for any loss caused by using this product.

The supplier reserves the right to modify software, hardware and user manual of this device without prior notice.

All other products and brand names are the property of their respective owners. This document is for information use only and is subject to change without prior notice. LOSTnFOUND® assumes no responsibility for any errors that may appear in this document.

To make copies, publish, transfer, store in a traceable system, or translate to any other language without written authorization from the supplier is strictly prohibited.