
LENTICUSeco

Technical specification

Version 1.02

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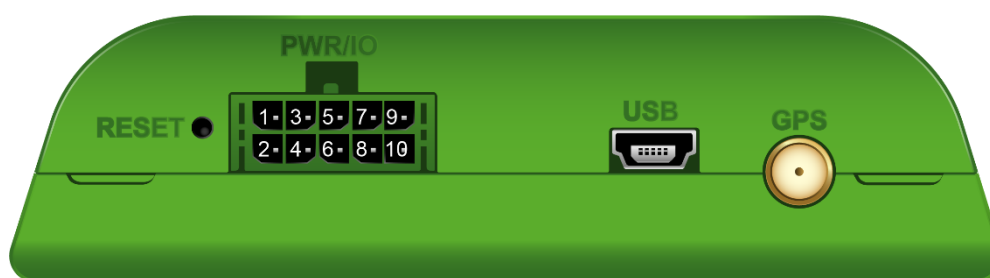
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Device Connectors & Pin Assignment

Front View

RESET	Hardware Reboot Button (Pinhole)
PWR / IO	Power and I/O Connector
USB	Do not use until advised by LnF Customer Service
GPS	SMA Connector for external GPS Antenna



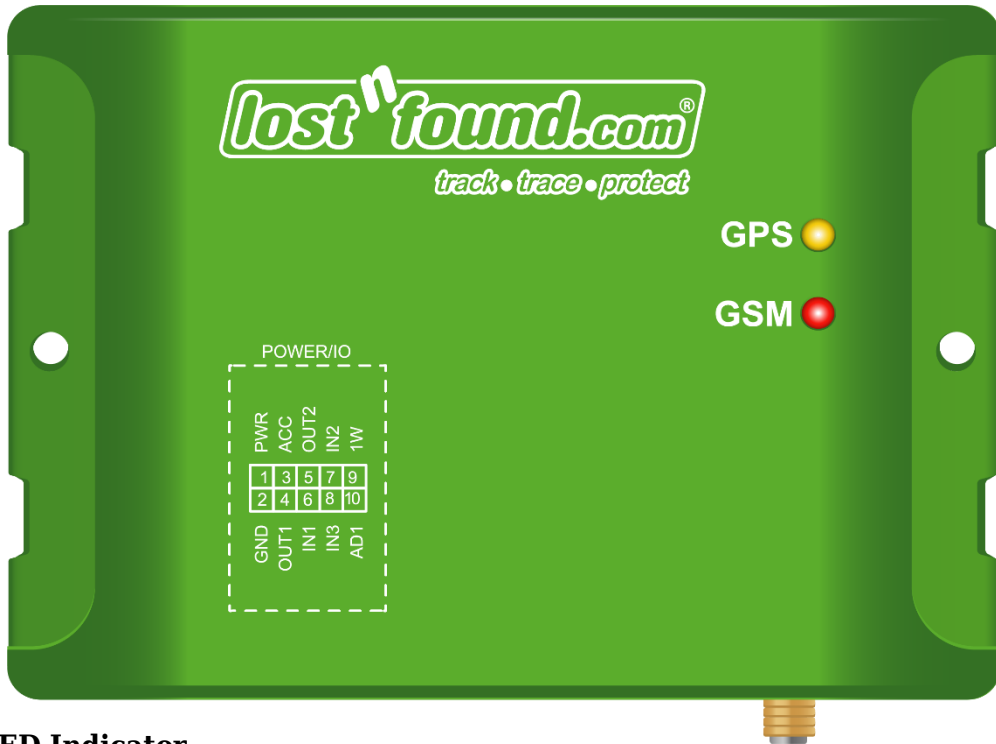
POWER / IO Connector

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 ~ +7.5V (Active high)
4	Output 1	Open-Drain output	O	I _{max} = 300mA
5	Output 2	Open-Drain output	O	I _{max} = 300mA
6	Input 1	Negative Trigger	I	DC VIN = 0V (Low Active)
7	Input 2	Positive Trigger	I	DC VIN = +30V ~ +7.5V (Active high)
8	Input 3	Negative Trigger	I	DC VIN = 0V (Low Active)
9	1-Wire	1-Wire® Data	I/O	
10	Analog Input 1	Analog Input	I	DC VIN = 0V ~ +30V

Top view

GPS LED Indicator (orange)

GSM LED Indicator (red)



GPS LED Indicator

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

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

Technical Specification

Characteristics

Dimensions (L x W x H) 72mm x 105.5mm x 28.5mm

Weight 95g

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

CPU ARM Cortex-M3

Data Memory 16MB

Motion Sensor 3-axes Acceleration Sensor

LED Indicator GPS and GSM Indicator

Interface I/O

Power / IO Connector 1 Connector, 10 Pins

Input Ports Positive Triggers: 2 (incl. Ignition)
Negative Trigger: 2
Analog Input: 1 (0~30V, 12 Bits)

Output Ports 2 max. current 300mA

1-Wire® iButton (Reader optional)

Electrical

Power Source DC 8V to 30V

Power Consumption 49mA @ 12V (Operating Mode)
10mA @ 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 160mAh

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.

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