
LENTICUS*standard*

Technical specification

Version 1.0
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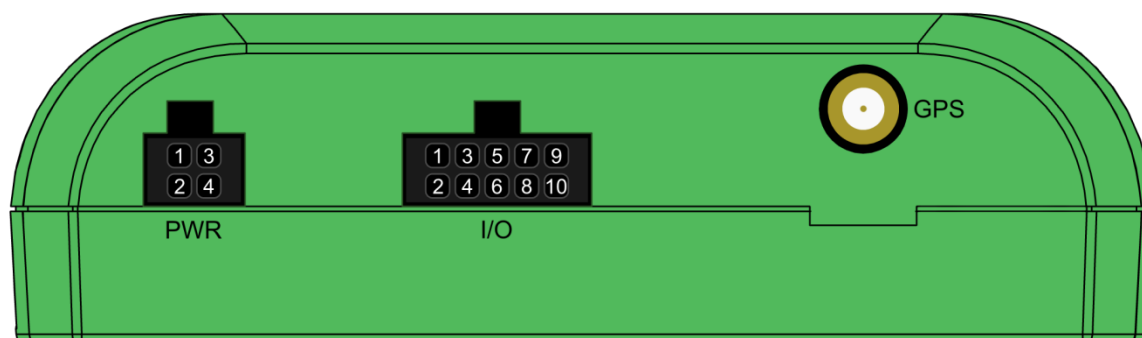
Device Connectors & Pin Assignment

Front View

 PWR Power Connector for Car Battery

 I/O Input/Output Connector, RS-232

 GPS SMA Connector for external GPS Antenna



PWR Connector

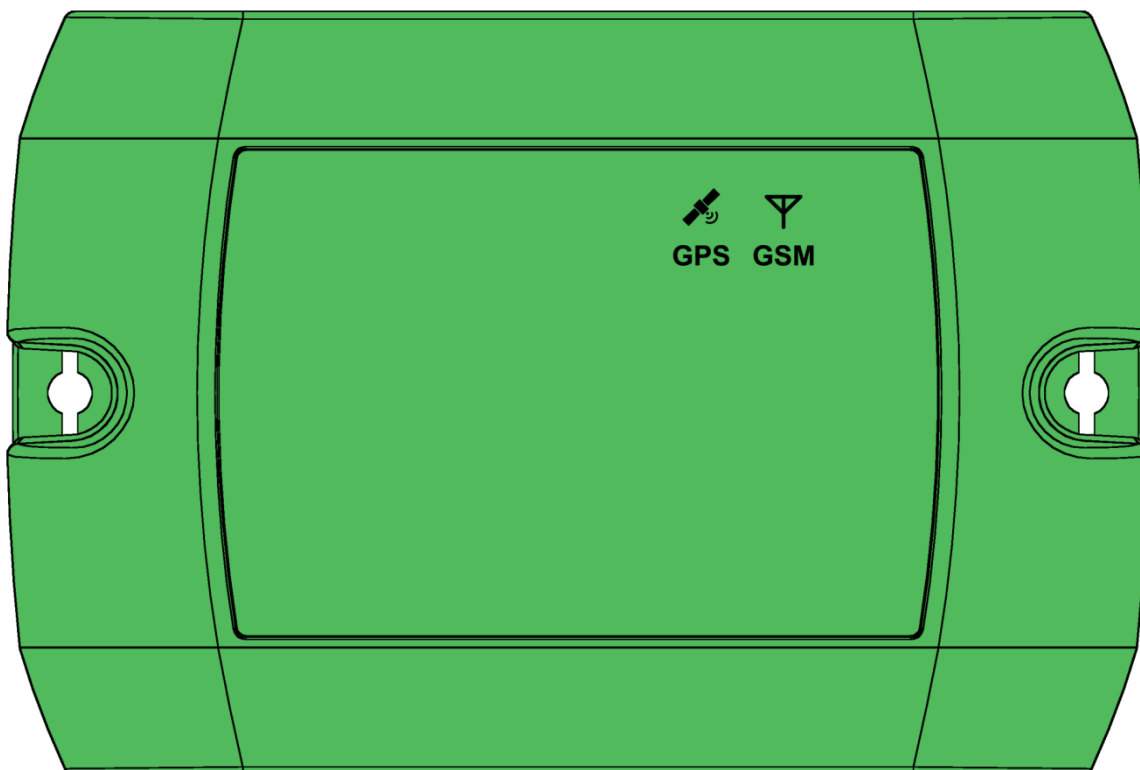
Pin#	Signal Name	Description	I/O	Remark
1	DC IN	Power supply input	I	DC Vin = +8 ~ +30V
2	GND	Signal ground	—	
3	Ignition	Ignition (ACC) Input	I	DC Vin = +30 ~ +7V (Active high)
4	Output1	Open-Collector Output 1	O	I _{max} = 300mA

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	TX	RS-232 Data Output	O	
8	RX	RS-232 Data Input	I	
9	Vout	Supply Voltage Output	O	V _o = 5.0V
10	GND	Signal Ground	—	

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

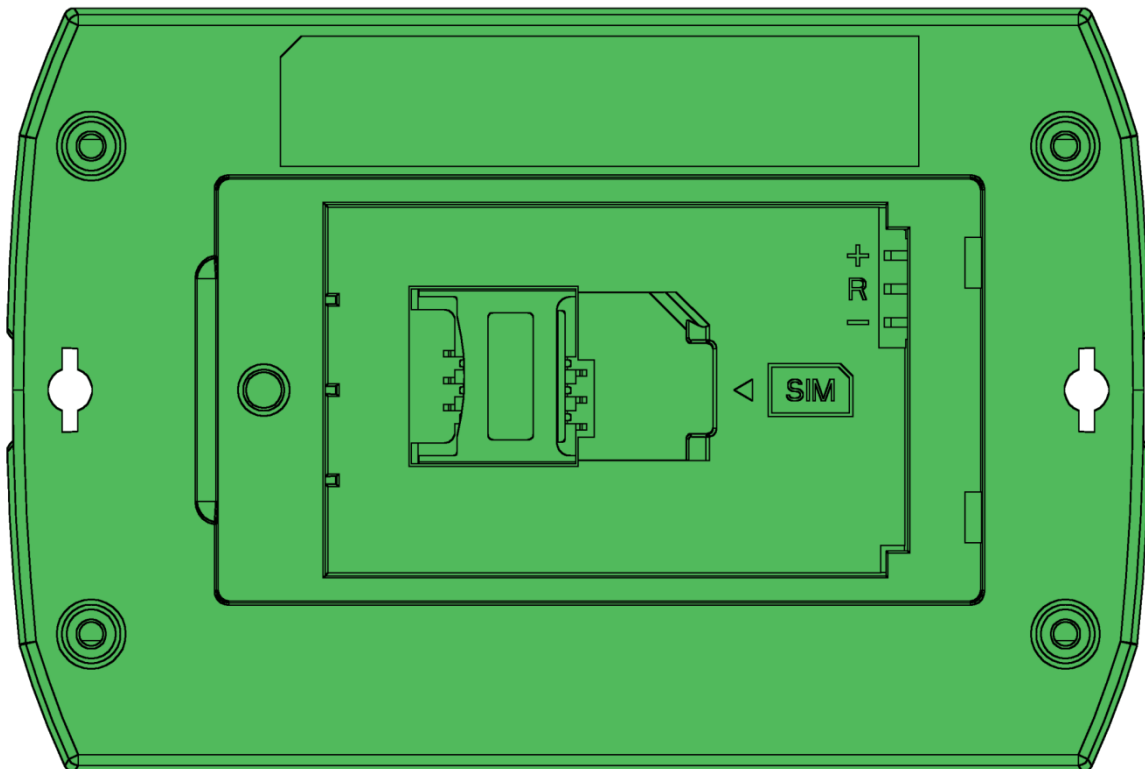
Rear View

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
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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	RS-232 Ports (Configurable)
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)
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Battery

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

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