

TracBox

GPS Tracking and Telemetry Device

Information Sheet



Document name	TracBox Info Sheet
Version	5.6.1
Version date	Friday, 9 November 2018
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Approved by	Acea Quigg

Version History

<u>Date</u>	<u>Version</u>	<u>Author</u>	<u>Description of Change</u>
03/09/2016	1	Acea Quigg	TracBox v.1
05/03/2017	2	Acea Quigg	TracBox v.2
07/09/2017	3	Acea Quigg	TracBox v.3
04/10/2017	3.3	Acea Quigg	TracBox v.3.3
21/12/2017	5.4	Acea Quigg	TracBox v.5.4
05/2/2018	5.6	Acea Quigg	TracBox v.5.6
21/05/2018	5.6.1	Acea Quigg	General update

Real-time GPS Locations

The TracBox allows tracking of all the assets on your site in real-time. TracBox sends periodic updates to the Integrated Management System, where you can view all of your assets, no matter where they are.



Sensor Data

Interface your TracBox with a multitude of hardware types. Sense and display readings such as:

- Flow Rates*
- Pressure*
- Voltage
- Temperature*
- Level*
- Current*

**TracBox has a 8-channel ADC capable of measuring voltages up to 60v DC. Any sensors will need to have their outputs scaled to this voltage to be read without an extra hardware/sensing circuitry. TracBox can also read 4-20ma outputs, as well as pulse per second outputs. There are currently up to 7 available input/output pins that can be configured to suit almost any sensing application or hardware.*

Mounting Options

The small form factor of the TracBox allows it to be installed in spaces where traditional GPS tracking/hardware sensor devices can't be installed. TracBox is specially designed to be mounted on the common hardware DIN rail. The unit measures a tiny 70x90x61mm.

Multiple Interfaces

- GPS
- USB
- 2.4Ghz/5.8Ghz WiFi (optional)
- 1 Analog input (8 optional)
- 2 digital IO pins (optional)
- 100Mb Ethernet (1Gb optional)
- 2 Relay outputs (optional)
- Bluetooth (optional)
- 802.15.4 IoT Mesh (optional)
- 3G/4G (optional)

Support for Integrators

TracBox is fully supported by the IMS platform and will allow users to have access to real-time location and IO data. When used with IMS all data is published to a JSON http end-point, allowing developers and integrators to efficiently scrape details programmatically for integration with 3rd party systems.

Pricing and Extras

Units:	Tracbox 5.6:
1-20	\$550
21-50	\$525
51+	\$500

Extras:			
WiFi 2.4/5.8Ghz	\$50 per unit	LTE modem	\$150 per unit
Gbit Ethernet	\$50 per unit	Relay module	\$50 per unit
POE (802.3af)	\$100 per unit	802.15.4 modem	\$150 per unit

All prices exclude GST

Technical Specifications

Name:	TracBox v5.6
Mounting:	DIN
Operational Temperature:	0-85 degrees C
Input Voltage:	9-28v DC, 9-60v DC optional
Fuse:	Self-healing 550mA poly fuse
Current Draw:	105mA @ 24v DC (~2.5w)
Real Time Clock:	No, GPS time sync capable
Enabled Interfaces from Factory:	Ethernet, USB. All others optional extras
Default IP:	192.168.137.137/24
Onboard Storage:	16GB
Onboard RAM:	1GB
CPU Cores:	4 core
CPU Clock Speed:	600Mhz, 1.2Ghz max.
USB Ports:	4
ADC Resolution:	12bit
ADC Channels:	1, 7 extra are configurable at purchase time
GPIO Channels (digital):	2 (optional)
GPS Chipset:	Venus828F
GPS Channels:	167 channels
GPS Accuracy:	2.5m standard, <1m with SBAS + PPP
GPS Rx Sensitivity:	-165dBm tracking, -148dBm cold start
External GPS Antenna:	SMA Female, active 3.3v
Dimensions:	W:70mm L:90mm H:61mm
Weight:	~200g (dry)



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