

truvami tag L



description

truvami® tag L is a powerful and flexible GNSS tracking device that integrates a multi-standard GPS receiver and passive Wi-Fi MAC address scanner with Bluetooth 5.2 connectivity and an accelerometer for motion detection, into one compact device. Location functionality is based on Satellite communication and scanning nearby Wi-Fi Acces Points. It is tightly integrated with Swisscom Broadcast's location solver. It provides seamless indoor-outdoor-tracking. The highly configurable device firmware allows for fine-grained adaptation to a specific use case to optimize performance and battery lifetime.

features

- LoRaWAN® class A compliant device
- dedicated high precision GPS receiver
- passive Wi-Fi MAC address scanner
- bluetooth 5.2 receiver and transmitter
- accelerometer to detect motion
- rechargeable USB-C charging

applications

- tracking of assets and valuables
- construction site management
- fleet management
- theft protection

mechanical specifications

weight	103 g
dimensions	80 x 54 x 23 mm
enclosure	plastic

power management

rechargeable Battery	3.7V, 0.29 Ah
battery type	Lithium Polymer
charging	wireless or USB-C

operating conditions

temperature	0 – 60 °C
humidity	0 – 95 % RH, non-condensing

radio / wireless

Wireless technologies	LoRaWAN® 1.0.3, Bluetooth 5.2
LoRaWAN® device type	class A
supported LoRaWAN® features	OTAA, ADR, Adaptive Channel Setup
LoRaWAN® receiver sensitivity ²	-127 dBm (SF7, 125 kHz) to -141 dBm (SF12, 125 kHz)
LoRaWAN® transmission power ²	14 dBm / 22 dBm (depending on region)
bluetooth transmission power ²	6 dBm
bluetooth sensitivity	-106.7 dBm(125 kbps) to -96.2 dBm(2 Mbit/s)

²See transceiver datasheet for detailed specifications

sensor specifications

accelerometer

range	±2, ±4, ±8, ±16
resolution	16 bit
accuracy (typ.)	±20 mg

position accuracy

GNSS*	3-5 meters
Wi-Fi	room-level
BLE	depends on the infrastructure

* assuming - 130 dBm

GNSS

receiver	uBlox GNSS receiver with patch antenna
GNSS	BeiDou, Galileo, GLONASS, GPS / QZSS

Wifi

receiver	2.4 GHz passive MAC scanning 802.11 b/g/n
----------	--

BLE

transceiver	advertising, FOTA, device config via BLE connection, 2.4 GHz passive BLE beacon scanning capabilities
-------------	---

We reserve the right to make technical changes, which serve to improve the product, without prior notification.

LoRa®, Semtech®, the Semtech logo, LoRa®, and LoRaWAN® are registered trademarks or service marks of Semtech Corporation, the LoRaAlliance® or its affiliates.

SAFETY-CRITICAL, MILITARY, AND AUTOMOTIVE APPLICATIONS DISCLAIMER: Truvami products are not designed for and will not be used in connection with any applications where the failure of such products would reasonably be expected to result in significant personal injury or death (“Safety-Critical Applications”) without an truvami officer’s specific written consent. Safety-Critical applications include, without limitation, life support devices and systems, equipment, or systems for the operation of nuclear facilities and weapons systems. Truvami products are not designed nor intended for use in military or aerospace applications or environments. Truvami products are not designed nor intended for use in automotive applications unless specifically designated by Truvami as automotive grade.

© 2023 Truvami. All rights reserved.