

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



technical specifications

mechanical specifications

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

power management

rechargeable Battery	3.7V, 0.85 Ah
battery type	Lithium Polymer
charging	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
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BLE

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

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