

truvami tag S



description

truvami® tag S is a powerful and seamless indoor/outdoor tracker optimized for precise localization of assets and workforce. It 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 Access Points. 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 wireless charging
- buzzer and LED for alarming functions

applications

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

mechanical specifications

weight	35 g
dimensions	50 x 50 x 17 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
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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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