truvami



93 x 89 x 37 mm

truvami® tag XL is a compact and versatile GNSS tracking device with integrated sensors, passive Wi-Fi scanning, and Bluetooth connectivity. Its cloud-based location computation helps conserve battery life, making it ideal for various tracking applications. With an IP67-rated housing and highly customizable firmware, it offers reliable performance in harsh industrial environments while optimizing battery usage.









tag XL



multi-protocol approach

accurate indoor and outdoor positioning through WiFi, BLE and GNSS technology



customizable sensors

offers optional sensing capabilities, including temperature, pressure and humidity



long battery life

provides up to 5+ years of battery life



built-in accelerometer

features an integrated accelerometer to trigger motion-induced location fixes



ultra rugged

robust IP67 housing for operation in harsh environments



semtech lora edge ™

tightly integrated with the Semtech LoRa Cloud ™Locator service

mechanics & power

mechanical specifications

weight 168g

dimensions 93 x 89 x 37 mm

enclosure plastic, ABS (with strong magnets)

operating conditions

temperature -20 - 60 °C

humidity 0 - 95 % RH, non-condensing

power management

battery type 2x AA alkaline standard cell

estimated battery life

up to 5+ years, depending on device configuration settings

communications

LoRaWAN frequencies

EU868 MHz

US915 MHz

AU915 MHz

AS923 MHz - on request

LoRaWAN details

LoRaWAN® device type class A

LoRaWAN® version LoRaWAN® 1.0.3

supported LoRaWAN® features OTAA, ADR, adaptive channel setup

LORGWAN® receiver sensitivity -127 dBm (SF7, 125 kHz) to -141 dBm (SF12, 125 kHz)

LoRaWAN® transmission power 14 dBm / 22 dBm (depending on region)



location

passive GNSS

receiver Semtech LR1110 receiver with external patch antenna

GNSS GPS & Beidou

GNSS bands L1

accuracy (assuming - 130 dBm) 5 - 50m, depending on environment

WiFi

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

frequency band 2412 – 2484 MHz

sniffer sensitivity (best-case) -75 dBm

accuracy 10 - 20 meters

BLE

transceiver advertising, FOTA, device config via BLE connection,

±20 mg

2.4 GHz passive BLE beacon scanning capabilities

transmission power 6 dBm

sensitivity -106.7 dBm(125 kbps) to -96.2 dBm(2 Mbit/s)

accuracy depends on infrastructure

sensors and peripherals

accelerometer (3-axis)

accuracy (typ.)

range $\pm 2, \pm 4, \pm 8, \pm 16$

resolution 16 bit



integration and security

truvami application

The truvami's application offers a range of powerful features, including receiving, decoding, storage, and efficient accessibility of the data for further processing. With the option of on-premise or cloud service installation, the application provides flexible deployment options to suit your needs. The application is built on a scalable and highly available architecture, allowing for independent scaling of microservices. When deployed on-premises, it can be horizontally and vertically scaled to meet the demands of your IoT solution.

third party integration

SSO: Bring your own identity provider to truvami. We support SAML 2.0 and OpenID Connect.

API: Integrate truvami with your existing systems. We provide a RESTful API for easy integration.

data security

LORAWAN: Securely connect your LoRaWAN devices to truvami. LoRaWAN® networks use AES-128 Encryption.

TLS: Securely connect your devices to truvami.

device management

Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application. The firmware can be upgraded with Bluetooth, while the settings can be configured via LoRaWAN downlink.

operating modes

efficiency mode	settings optimized for battery saving
dynamic mode	regular interval for real-time tracking
custom	configure the parameters yourself to fit your needs

customization

branding	Customize the look and feel of truvami to match your corporate identity.
custom views	Create custom views to display the data in a way that suits your needs.
bring your own map	Use your own map provider in truvami

disclaimer

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

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truvami

truvami® is an IoT startup specialized in flexible end-to-end tracking solutions, based in Zürich, Switzerland. Our mission is to support enterprises in safeguarding their workforce and valuable assets through cutting-edge tracking technologies at smallest size. truvami offers a portfolio of different trackers that are designed to serve different use-cases in vertical markets like transport, logistics, industrial, construction, fleet-and cattle-tracking. The innovative multi-protocol approach combined with a dedicated geolocation engine allows seamless in- and outdoor tracking. Together with truvami's cloud software platform, customers can easily integrate the solution into their existing IT landscape.

Ready for your next step?

Schedule a discovery call for more information.

truvami.com



