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tag XL

description

truvami® tag XL is a powerful and flexible GNSS tracking device that integrates a multi-standard GPS scanner and passive Wi-Fi MAC address scanner with Bluetooth 5.2 connectivity and various sensors such as accelerometer, into one compact device. Location functionality is based on Semtech LoRa Edge™ platform and is tightly integrated with Semtech LoRa Could™ Locator service. The IP67-rated housing with different mounting options prepares the device for operation in a harsh industrial environment.

Highly configurable device firmware allows for fine-grained adaptation to a specific use case to optimize performance and battery lifetime.

applications

- industrial asset tracking
- warehouse logistics
- construction site management
- fleet management
- theft protection

device variants

TRU-TRK-EU868-2301-TAG-XL	Europe
TRU-TRK-US915-2301-TAG-XL	America
TRU-TRK-AU915-2301-TAG-XL	Australia
TRU-TRK-AS923-2301-TAG-XL	Asia

features

- 2 × AA batteries for up to 5 years lifetime
- LoRaWAN® class A compliant device
- Low power GNSS and passive Wi-Fi AP MAC address scanner module based on Semtech LoRa Edge™ platform
- bluetooth 5.2 receiver and transmitter with integrated antenna
- various selection of sensors available
- robust IP67 industrial housing

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⚙ technical specifications

mechanical specifications

weight	186 g
dimensions	93 × 89 × 37 mm
enclosure	plastic, ABS, with strong magnets

operating conditions

temperature	–20 – 60 ºC
humidity	0 – 95 % RH, non-condensing

device power supply

battery type	2 × AA alkaline standard cell
expected battery lifetime	up to 5 years depending on device profile

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[1]	-127 dBm (SF7, 125 kHz) to -141 dBm (SF12, 125 kHz)
LoRaWAN® transmission power[1]	14 dBm / 22 dBm (depending on region)
bluetooth transmission power[1]	6 dBm
bluetooth sensitivity[1]	-106.7 dBm(125 kbps) to -96.2 dBm(2 Mbit/s)

[1]See transceiver datasheet for detailed specifications

((•)) sensor specifications

GNSS

receiver	Semtech LR1110 receiver with external patch antenna
GNSS	GPS & Beidou L1 band

Wifi

receiver	2.4 GHz passiv MAC scanning 802.11 b/g/n
magnetic response	omnipolar
reset activation (typ.)	after 7.5 sec

Accelerometer

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

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ⓘ disclaimer

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