

# SmarTag GNSS EX

## Datasheet

G4T\_V2R4



The **SmarTag GNSS EX** **intrinsically safe portable, positioning and tracking device** provides GNSS-based outdoor and BLE-based indoor position tracking functionalities, along with data communication capabilities over 2G/4G cellular networks. By design, the SmarTag GNSS EX can autonomously manage and bridge network outages in poorly covered areas with using a built-in offline data storage to prevent information loss.

The SmarTag GNSS EX is also equipped with dedicated components to enable visual feedback and motion state tracking capabilities. It also can be optionally integrated with other handheld and wearable devices (e.g. smart-phones, -watches) or other compatible appliances by using the built-in Bluetooth® Low Energy (BLE) interface.

The SmarTag GNSS EX device is intended for use in ATEX Zone 1 application environments and contains a non-replaceable battery, which can be wirelessly recharged with the Wireless Charging Station devices provided.

### Electrical Data

Battery capacity	2400 mAh @ 3.7 V (rated) Li-ion
Battery lifetime	typ. 24 hours (highly depends on configuration)
Wireless charging	WPC 1.2.4 (Qi) compliant
Ambient temperature	-10 ... +45 °C / 14 ... 113 °F
Humidity	5% ... 95% r.H. (non-condensing)

### RF Properties

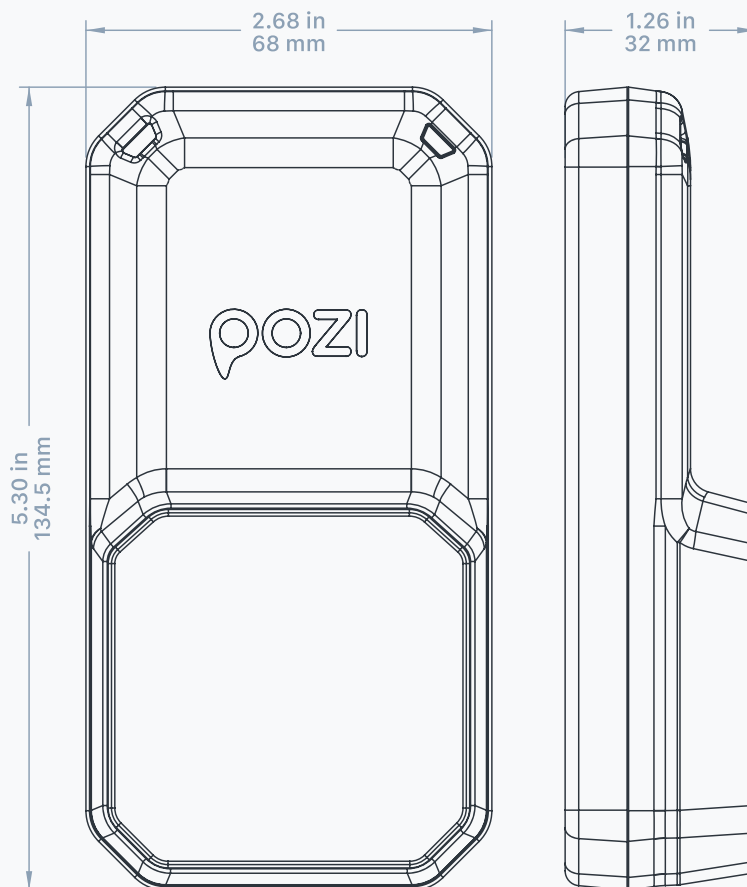
Technologies	GPS, Galileo, GLONASS (Concurrent GNSS) LTE-FDD/TDD, GSM, GPRS, EDGE (4FF SIM card slot) Bluetooth v5.4 (BLE)
Frequency bands	L1, E1, L1OF - GNSS B1-B5, B7, B8, B12, B13, B18-B20, B25, B26, B28, B66 - LTE-FDD B38, B39, B40, B41 - LTE-TDD 850, 900, 1800, 1900 MHz - GSM/GPRS/EDGE 2.4 GHz ISM - BLE
Transmission power	+30 dBm max. (Cellular) +3 dBm max. (BLE)

## ATEX Certification

Zone 1-2	II 2 G Ex ib IIC T6 Gb
Zone 21-22	II 2 D Ex ib IIIC T80 °C Db
Certificate number	EXON 25 ATEX 0891 X

## Mechanical Data

IP rating	IP5X (according to EN 60529)
Outer dimensions	134.5 mm × 68 mm × 32 mm / 5.30" × 2.68" × 1.26"
Weight	240 g / 8.46 oz



# EU Declaration of Conformity

Product:

**SmarTag GNSS EX**

Intrinsically safe portable, positioning and tracking device

G4T\_V2R4

Manufacturer:

**Pozi Development Kft.**

**Frankel Leó út 45, Budapest 1023, Hungary**

Manufacturer declares, under its sole responsibility,  
that the product complies with the requirements of the directives:

**2014/34/EU** - ATEX Product Certification Directive

**2014/30/EU** - Electromagnetic Compatibility Directive

Manufacturer declares, under its sole responsibility,  
that the product has been designed and tested in accordance with the standards:

**EN 61000-6-3:2020** - Radiated RF emission limits

**EN 61000-6-2:2019** - Radiated RF disturbance immunity (industrial)

**EN 61000-6-2:2019** - ESD immunity (industrial)

**EN 60079-11:2012** - Explosive atmospheres, Part 11: Equipment protection by intrinsic safety "i"

**EN IEC 60079-0:2018** - Explosive atmospheres, Part 0: Equipment, General requirements

The product has been certified for use in potentially explosive atmospheres:

**Notification number: EXON 25 ATEX 2361 Q**

**EU-type examination certificate number: EXON 25 ATEX 0891 X**

Certification body:

**EX-ON Mérnökiroda Kft.**

**Notified body number: NB2786**

**Örs utca 3, Budapest 1183, Hungary**



Dr. Buchwald Milán, CEO

Pozi Development Kft.

Budapest, 2025.09.09