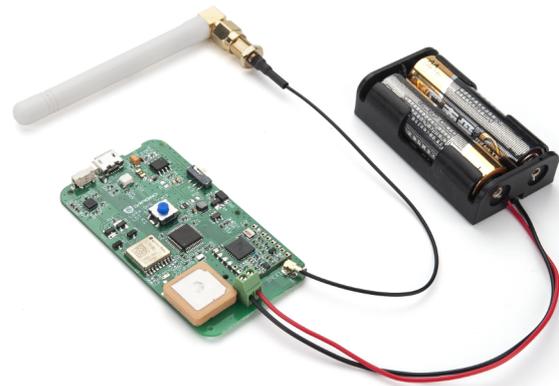


LoRaWAN GPS Tracker with 9-axis accelerometer

LGT-92



OVERVIEW:

The Dragino LoRaWAN GPS Tracker LGT-92 is an [open source](#) GPS tracker base on Ultra Low Power STM32L072 MCU and SX1276/1278 LoRa Module.

LGT-92 includes a [low power GPS](#) module L70 and [9-axis accelerometer](#) for motion and attitude detection. The power for both of the GPS module and accelerometer can be controlled by MCU to achieve the best energy profile for different applications.

The LoRa wireless technology used in LGT-92 allows the user to send data and reach extremely long ranges at low data-rates. It provides ultra-long range spread spectrum communication and high interference immunity whilst minimising current consumption. It targets professional tracking service.

LGT-92 is an open source product, it is based on the STM32Cube HAL drivers and lots of libraries can be found in ST site for rapid development.

LGT-92 series products include two major variants:

- * **LGT-92-LI**: is powered by 1000mA rechargeable Li-on battery and charge circuit, which target for real time tracking with short tracking uplink.
- * **LGT-92-AA**: Disable the charge circuit to get the lowest power consumption and is powered directly by AA battery. This is designed for asset tracking where only need to uplink a few times every day.

Features:

- LoRaWAN 1.0.3 compliant
- Regular/ Real-time GPS tracking
- Built-in 9 axis accelerometer
- Motion sensing capability
- Power Monitoring
- Tri-color LED, Alarm button
- 1000mA Li-on Battery power (for LGT-92-LI)
- Charging circuit with USB port (for LGT-92-LI)
- 2 x AA battery holder (for LGT-92-AA)

Power Consumption:

- Sleeping Mode: 77uA (for LGT-92-LI)
- Sleeping Mode: **2uA** (for LGT-92-AA)
- Tracking: max: 38mA
- LoRa Transmit: 24 ~ 150mA

Dimension:

- Size: 85 x 48 x 15 mm
- Net Weight: <55g

Specification:

MCU Side:

- MCU: STM32L072CZT6
- Flash: 192KB
- RAM: 20KB
- EEPROM: 6KB

GPS, L70R:

- Acquisition: 16mA
- Tracking: 13mA
- Cold Start: <35s
- 8uA@Backup Mode
- Warm Start: <30s
- Accuracy: < 2.5m CEP
- ReHot Start: <1s

Accelerometer:

- MPU9250 9-axis
- triple-axis MEMS gyroscope
- triple-axis MEMS accelerometer
- triple-axis MEMS magnetometer
- 3.5mA operating current

Order Info:

LGT-92-XX-YYYYY

*XX for LI or AA

*YYYYY for valid frequency band, include:
EU868, US915, AU915, AS923, EU433
IN865, KR920, CN470

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [GPS Modules](#) category:

Click to view products by [Seeed Studio](#) manufacturer:

Other Similar products are found below :

[ISM3333-C6.1](#) [SIM68M](#) [GPS-11858](#) [SL871GPS232R001](#) [DD-14239](#) [M20050-1](#) [M20048-1](#) [NEO-M8M-0](#) [S2-105Y0-Z1E0G](#) [NEO-M8P-0](#)
[SIM28ML](#) [EWM-G110H01E](#) [WISE-4610P-NA](#) [M10578-A2](#) [M10578-A3](#) [GPS-13740](#) [MIKROE-4150](#) [28504](#) [L26ADR-S89](#) [L26T-S89](#)
[L70B-M39](#) [L86-M33](#) [L89-S90](#) [L96-M33](#) [S2-10640-Z1G0D](#) [EL.1A](#) [4037735105317](#) [4037735105331](#) [W2SG0084i-B-T](#) [2614021137000](#)
[PKG300060P](#) [RXM-GPS-F4-T](#) [RXM-GPS-FM-B](#) [A1084-A](#) [A2100-A](#) [L80-M39](#) [GYSFFMAXC](#) [W2SG0008i-B-T](#)