

DESCRIPTION

Construtag is designed to track the assets both in open areas using a navigation receiver, and indoors, using the iBeacon Bluetooth tag scanner and Wi-Fi access points scanner.

In addition to determining the location of the controlled object, Taiga Tracker allows you to count the activity of movements, detect impacts.

Energy-efficient data transmission technology LoRaWAN allows you to provide up to 2 years of battery life. The device is made in a shock-resistant sealed enclosure, which ensures operation even in the most severe conditions.



FUNCTIONAL

- GPS/GLONASS outdoor geolocation
- Indoor geolocation with embedded iBeacon scanner
- Indoor geolocation with embedded Wi-Fi scanner
- Motion activity tracking
- Shock detection
- 2 embedded geofences
- Battery powered
- Strong waterproof IP-65 enclosure
- Up to 2 years autonomy
- Android/IOS mobile application for device configuration

APPLICATIONS

- Asset tracking
- Logistics
- Equipment usage activity tracking
- Indoor geolocation

DATA TRANSMISSION

LoRaWAN 1.0.3

SPECIFICATIONS

PARAMETER	CHARACTERISTICS
Enclosure and dimensions	
Color	Black
Material	Glass filled polyamide
Ingress protection rating	IP-65
Dimensions	54x35x23 mm
Weight	40 g
Operational conditions	
Operational temperature range	-40...+85 °C
Humidity	0-100%
Storage temperature range	-60 ... +125 °C
Power supply	
Operational voltage range	3.0 V
Battery model	LiMnO2
Battery type	1x CR123 (LiMnO2)
Battery lifetime	Up to 2 years (depending on settings)
Capacity	1500 mAh
GNSS geolocation	
Antenna type	Embedded ceramic
Supported GNSS navigation satellite systems	GLONASS/GPS
Number of channels	72
Sensitivity	-167 dBm
Cold start time	40 s
Hot start time	2 s
Embedded RTC sync with GNSS	Yes
Data transmission	
Communication standard	LoRaWAN 1.0.3 class A
Radio frequency range	864-870 MHz
Maximum transmit power	16 dBm
Sensitivity	-129 dBm
Network activation method	OTAA
Supported LoRaWAN regions	RU864/EU868
Bluetooth geolocation	
Geolocation method	Bluetooth low energy
Scanning period/duration	Configurable
Bluetooth beacon format	iBeacon
Bluetooth beacon filtration	Yes
Wi-Fi geolocation	
Geolocation method	Near Wi-Fi access points BSSID scan
Scanning period/duration	Configurable
Scanning principle	Active
Additional features	
Motion activity tracking	Yes, with configurable interval and sensitivity
Shock detection	Yes, with configurable sensitivity
Power saving mode if no movement	Yes, with configurable no movement duration

Two embedded geofences	Yes, with configurable data transmission interval
Configuration	
Configuration interface	With Android/IOS mobile application
Identification	
Identification method	Embedded NFC tag with device information and LoRaWAN keys

CONTACTS

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