

IOTRACKER 3

A multi-sensor tracker with an exceptional battery performance

Key features

- › National and international connectivity coverage through LoRaWAN
- › Indoor and outdoor location tracking via GPS, Wi-Fi, Bluetooth 5.1 and LoRaWAN
- › Safety alerting via button and sensors
- › Highly configurable over-the-air (LoRaWAN and Bluetooth 5.1¹)
- › Exceptional battery life and sub-zero temperature performance
- › Firmware updates over-the-air (FOTA)
- › Log synchronization over-the-air (LSOTA¹)
- › Industrial, waterproof enclosure (IP68)
- › Easily mountable via included mount

ioTracker 3

Looking for a multi-sensor IoT device which has already proven itself in the field? Great!

The ioTracker contains multiple pre-set configurations, which can cover many use cases. If needed, the individual parameters can be tuned to match your business needs. Almost every setting of the ioTracker can be changed – over-the-air (OTAA) – allowing you to reconfigure / repurpose your ioTrackers wherever they are.

The ioTracker features multiple localisation features: GPS, Wi-Fi, Bluetooth LE and LoRaWAN. This provides the best balance between high-accurate positioning and power efficiency in almost every in- and outdoor situation.

¹ Coming this year



The ioTracker can be delivered as a turn-key solution with our applications (dashboard, apps and API), as well as hardware-only where you make your own implementation via our sophisticated protocol specification.

Integrations

- › Use the ioTracker applications and easily integrate your own software with our API.
- › Integrate the ioTracker directly in your own software (hardware-only).
- › Use the services of one of our trusted integrators.

More information

Visit our website <https://iotracker.nl> for more details on how ioTracker can help you.



Technical details

Internal log storage	2 MB	Approx. 65000 log entries on average ¹
Sensors	Push button	With tactile feedback
	3D accelerometer	Measurement range : $\pm 2 / 4 / 8 / 16$ g Sensitivity : 15.6 / 31.2 / 62.5 / 187.5 mg/digit
	Temperature sensor	Resolution : 0.01 °Celsius Accuracy : 0.2 °Celsius
	Light sensor	0.01 lux – 83000 lux
	Humidity (optional)	Accuracy tolerance : ± 3 % relative humidity Hysteresis : ≤ 2 % relative humidity
	Air pressure (optional)	RMS Noise : 0.2 Pa (equiv. to 1.7 cm) Sensitivity Error : ± 0.25 % (equiv. to 1 m at 400 m height change)
	High g-shock (optional)	Measurement range : $\pm 100 / \pm 200$ g Sensitivity : 780 / 1560 mg/digit
Audio-visual	LED	Red, Green, Blue
	Buzzer	Piezo
Connectivity	LoRaWAN	Version 1.0.3
	Bluetooth	Bluetooth 5.1
	Wi-Fi	802.11 B/G/N, 2.4 Ghz
Antenna	All integrated antenna design	-5.5 dB in all directions (verified in a certified test lab)
Localisation	Satellite	> GPS, Galileo and BeiDou > uBlox EVA-M8M GPS chip
	Wi-Fi	802.11 B/G/N, 2.4 Ghz
	Bluetooth LE ¹ above	> Scanning for beacons > Being a beacon
Temperature range	Operating temperature range	-20 °Celsius – +65 °Celsius
Power	Battery	> ERI4250 (½ AA), 1200 mAh > user-replaceable (e.g., Saft LS14250)
Enclosure	Dimensions	57.4 x 33.4 x 18.7 mm
	Weight	39 g (including battery)
	Ingress protection	IP68 (waterproof: 1.2 m underwater surface for at least 2 hours)
	Wall mount	Detachable
Certifications	LoRaWAN	ioTracker embedded software is built on the Stackforce/STM certified reference stack, version 4.4.2

Specifications subject to change