



Description

IoT Tracker SIGFOX is a universal device designed to track the position and movement of objects, especially personal cars and trucks, construction machines and valuable parts of technological equipment. Battery power allows fast installation and immediate operation without the need of intervention into the tracked object. Tracker operates in low-power mode allowing operation for several years. The device can be activated by movement or periodically at a specific time*. Information about sensor activation and subsequently sensor position using Global GPS and GLONASS satellite navigation systems is sent via SIGFOX network in that case. Built-in sensors also provide information about temperature, humidity and battery condition.

Technical Specifications

Parameter	Value	
Radio network	SIGFOX (ISM 868 MHz)	
Power supply voltage range	3.6V / 2.4Ah (lithium battery AA)	
Power consumption**	Idle mode	50uA
	Acquisition / Tracking GNSS	30 / 26 mA
	SIGFOX data transmission	32 / 41 / 51 mA (according to TX power)
GNSS receiver	Acquisition time	< 1 s (HOT START, max 3 days from last fix) < 5 s (WARM START, more than 3 days from last fix) < 35 s (COLD START)
	Other features	position logger (15 s / 16 hours)
Accelerometer	Range of measurable acceleration	±2g / ±4g / ±8g / ±16g
	Basic features	measurement of acceleration, vibration and tilt in three axes, free fall detection
Thermometer / Hygrometer	Relative humidity measurement – range / accuracy	0 ÷ 100 % / ± 2 %
	Temperature measurement – range / accuracy	-30 ÷ +75 °C / ± 0.2 °C
Temperature range	-30 to +75 °C	
Dimensions w × h	enclosure dependent	

* It is possible to create customized FW for IOT system according to customer's requirement.

** Power consumption depends on the number of active peripherals. It is necessary to know expected scenario of device usage to determine the battery life.