

IoT Sensor

Low Cost Tracker

The **Low Cost Tracker** is a **cost-effective tracking solution** that enables various objects to be localized and **monitored** over a **long period of time, even in the low-price segment**.

The Low Cost Tracker solution enables an overview of valuable goods, machines, and vehicles without the need for additional infrastructure.

Different versions: Essential, Plus and Advanced



CE

KEY FEATURES

Extremely **robust, waterproof, shockproof** case

Easy installation

EU coverage, even in the deepest basement

Devices onboarded and SIM cards activated on the Platform

APPLICATIONS

Inventory and warehouse stock: With the LCT, you know which assets are located at the company site and which ones are on the move.

Tool kit/machinery/hire

Find specific assets: always know where an asset is located.

Theft: use the Low Cost Tracker and geofences to receive alarms about the unplanned removal of an asset.

TECHNICAL SPECIFICATIONS

Enclosure	LCT Essential	LCT Advanced	LCT Plus
Weight	250 g	250 g	250 g
Dimensions	194 × 83 × 41.5 mm	176 x 70 x 41.5 mm	171.5 x69.5 x 39 mm
IP rating	IP68	IP68	IP68

Operating condition

Temperature	-20 °C to +60 °C
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Power Supply

Battery Type	Lithium metal battery, Li SOCl ₂ Composed of 2 cells in a 1S2P configuration.
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Battery Lithium Content	Cell: 2.35g Battery: 4,7g
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Energy Content	Battery: 4.5 V / 18.000 mAh Cell: 4,5V/9,i000mAh
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Battery weight	107.5 g
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Power Consumption	Quiescent current < 15uA NB-IOT Transmission < 400mA NB-IOT Receiving current < 100mA Data acquisition current < 600mA Average power consumption 0.65mAh/day Typical battery lifetime > 5 years x 1.5 transmissions/day and 2 FOTA updates
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Connectivity	
Localization	Mobile radio (2G and NB-IoT) WLAN-scanning (radio protocol 802.11) frequency = 2.4 GHz Advertising (radio protocol 802.15.1) frequency = 2.4 GHz. WIFI accuracy up to 10mt
Radio module	LTE bands NB1 and GSM Integrated antenna
CPU	ARM® 32-bit Cortex®-M0 CPU Storage: up to 100 data records can be stored Firmware update over the air (FOTA).
Positioning accuracy	50m in WLAN networks; in radio networks according to radio cell size

Sensor	LCT Essential	LCT Advanced
GPS	✓	✓ (tracker mounted)
Temperature		✓
Position	✓ (wifi and cell-based)	✓
Mechanical Theft Protection		✓