



Industrial Asset Tracking Device

CONTAINER TRACKER



PRODUCT DESCRIPTION

The LTE Cat.1 Container Tracker is a compact and industrial-grade tracking device designed for reliable asset monitoring in logistics and IoT environments.

It combines GNSS positioning, Bluetooth Low Energy (BLE), and LTE Cat.1 connectivity to provide seamless indoor and outdoor tracking. The device intelligently switches between BLE-based positioning and GNSS tracking to ensure optimal power efficiency and location accuracy.

With configurable reporting intervals, integrated sensors, and flexible communication protocols, the tracker enables scalable and efficient deployment across supply chain, container tracking, and industrial applications.

APPLICATIONS

- **Asset Tracking & Monitoring**
- **Industrial Equipment Monitoring**
- **Warehouse & Indoor Positioning**

FEATURES

- **GNSS (GPS, BDS, GLONASS) and BLE 5.0 hybrid positioning**
- **LTE Cat.1 connectivity for wide-area communication**
- **MQTT, HTTP(S), TCP, UDP protocol support**
- **Integrated accelerometer for motion detection**
- **Asset beacon scanning (BLE)**
- **Remote configuration via network and Bluetooth**



TECHNICAL DATA

POSITIONING & LOCATION

Technology	GNSS (GPS, BDS, GLONASS), BLE
Accuracy	< 2.5 m
Cold Start	30 to 120s
Warm Start	5 to 10s
Positioning Logic	BLE positioning with GNSS fallback

CELLULAR

Technology	LTE Cat.1
Frequency	Global LTE bands (regional variants)
Protocols	MQTT, HTTP(S), TCP, UDP
SIM	Nano-SIM / eSIM

POWER

Battery	Lithium thionyl chloride + supercapacitor
Battery Life	3 months (BLE mode, 5 min interval)
Performance	8,000 GNSS reports 16,000 BLE reports

OPERATING ENVIRONMENT

Operating Temperature	-35°C to +75°C
Storage Temperature	-40°C to +85°C

INTERFACE

Configuration	Bluetooth (mobile app), MQTT downlink
Data Output	JSON / HEX
Communication	LTE Network

FEATURE

Sensors	3-axis accelerometer, temperature sensor
Tracking Modes	Periodic Mode Autonomous Mode On-demand Mode
Scenarios	Movement Detection Temperature Monitoring Tamper Alarm Asset Tracking via BLE Heartbeat Monitoring
BLE Functionality	Beacon scanning (up to 150 devices) Up to 15 reported per message

PHYSICAL SPECIFICATIONS

Dimensions	176 × 28 × 33mm (without lugs) 200 × 28 × 33mm (with lugs)
Housing	ABS + PC
Switch	Magnetic

ORDER CODES

VERSIONEN

Container Tracker

ORDER CODES

IOT-TR-CE-AT-4201