

HT102

Smarter Tracking
Total Visibility

HT102 is part of a next-generation shipment tracking solution. It is designed to meet the demands of cost-conscious logistics and cold chain operations across all transportation modes.



GPS + WIFI + LBS

Stolen Cargo
Recovery

Portable

Smart Platform

Real-time shipment data is captured through the cloud platform, enabling instant notifications whenever anomalies are detected to help minimize operational impact.

Built for
Efficiency4G Connectivity
2G FallbackBluetooth 5.0
External SensorsGPS, LBS & WiFi
Indoor and Outdoor LocationTemperature
SensorHumidity
SensorLight
SensorVibration
SensorWaterproof
IP67 Rugged

Specifications

General

Network	4G CAT. 1 bis + 2G
Enclosure	ABS
Supply Voltage	3.7 V Rechargeable
Firmware Upgrade	USB interface, OTA
Stand-by Current	≤80 μA
Battery Life	Duration @ Reporting Frequency 15 days @ every 6 min 23 days @ every 15 min 45 days @ every 30 min 88 days @ every 60 min 2 years @ 1 report per day

Global Deployment

For Americas: HT102 -LA (Cat 1)	LTE FDD: B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900 MHz
For EMEA: HT102 -EM (Cat 1)	LTE FDD: B1/B3/B5/B7/B8/B20 GSM: 850/900/1800/1900 MHz

Wireless

Data Support	TCP, MQTT
BlueTooth	BLE 5.0
WIFI	2.4 Ghz

Connector

USB	Type-C
Cellular Antenna	Internal
GNSS Antenna	Internal, GPS/GLONASS/ BeiDou/QZSS
SIM Card	Nano SIM

On board

LED	Power Light, Status Light
Memory	16000 records @ 43 bytes
3D Accelerometer	Internal 3-axis accelerometer
Vibration Sensor	Gravity Measurement Range: ±2g /±4g /±8g /±16g ODR Bandwidths: 25 Hz
Light Sensor	Measuring Range: 1~ 1000

Physical

Dimensions	123*68*11 mm
Weight	106 g

Positioning

Location Technology	GPS Engine GPS - L1 C/A, GLONASS-L1, QZSS- L1 C/A
Concurrent GNSS	GPS+GLONASS
Update Rate	1 Hz
Channels	32
Tracking Sensitivity	Acquisition: -147 dBm Reacquisition: -162 dBm Tracking: -161 dBm
TTFF @ -130 dBm without EASY™	Cold Start: <30 s; Hot Start: <2 s
Reacquisition	<1 s
Assisted GPS	Supported
Location	GNSS / Cell ID / WIFI
Horizontal Position Accuracy @ 50% (static, 24 hours, -130 dBm, >6 satellites)	Autonomous: <2.5 m CEP

Electrical

Hardware Protection	Protection Against Reverse Polarity, ESD, Surge, and Overvoltage
Average Power Consumption	<80 μA (Sleep) <80 mA (Active)
Backup Battery	3000 mAh (Li-ion Polymer Battery, USB 5.0 V charging)
Temperature and Humidity Range	Humidity Measurement Accuracy: ±3% RH @ +10°C ~ +70°C Temperature Measurement Accuracy: ±0.5°C @ -20°C ~ +65°C