

HARDWIRED ASSET TRACKER

BH2M1 LTE Cat-M1 / NB-IoT Tracker

LTE Cat-M1 / NB-IoT hardwired GNSS tracker with comprehensive I/O, CAN adapter support, and Bluetooth LE

4G · Cat-M1 ·
CAN · BT LE



Weight	69 g (2.4 oz)	Dimensions	77 × 62 × 20 mm (3.03" × 2.44" × 0.79")
Backup Battery	Li-Ion 170 mAh / 3.7V	Operating Temp	-20°C to +85°C (-4°F to +185°F)
Operating Voltage	10V – 30V DC	GNSS Accuracy	< 2.5 m CEP
Ingress Protection	IP41	SIM	Micro-SIM

KEY FEATURES

LTE Cat-M1 / NB-IoT	6-Constellation GNSS	Bluetooth LE 4.0
CAN Adapter Support	3× Digital Inputs / 3× Digital Outputs	2× Analog Inputs
1-Wire Interface	Green Driving & Crash Detection	Towing & Unplug Detection
Immobilizer & iButton Support	Auto & Manual Geo-fence	FOTA & Remote Configuration

NETWORK / OPERATING BAND

	B1/B2/B3/B4/B5/B8/B12/B13/B18 /B19/B20/B25/B27/B28/B66/B8 5
LTE FDD Cat-M1	
LTE DL/UL	588 / 1119 Kbps
Tx Power	Class 3 – 23 ±2.7 dBm (FDD & TDD)
Protocol	SMS (text/data)

GNSS SPECIFICATIONS

Constellation	GPS + GLONASS + Galileo + BeiDou + QZSS + AGPS
Receiver	33 tracking / 99 acquisition channels
Tracking Sens.	-165 dBm
Accuracy CEP	< 2.5 m
Velocity Acc.	< 0.1 m/s
Hot TTFF	< 1 s
Warm TTFF	< 25 s
Cold TTFF	< 35 s

POWER CONSUMPTION

Ultra Deep Sleep	< 3 mA @ 12V
Deep Sleep	< 5 mA @ 12V
Online Deep Sleep	< 11 mA @ 12V
GPS Sleep	< 18 mA @ 12V
Nominal	< 34 mA @ 12V
Peak / Full Load	< 2 A @ 12V

INTERFACES & I/O

Digital Inputs	3 (incl. 1 negative, 2 impulse)
Digital Outputs	3
Analog Inputs	2
CAN Adapter	1 (LV-CAN200, ALL-CAN300, CAN-CONTROL)
1-Wire	1
USB	2.0 Micro-USB
GNSS Antenna	Internal high gain
Cell Antenna	Internal high gain
LED Indicators	2 status LEDs
Memory	128MB internal flash
Bluetooth	BLE 4.0 + LE
BLE Peripherals	Temp/humidity sensor, OBDII dongle, barcode scanner, universal BLE

FEATURES & SCENARIOS

Sensors	Accelerometer
Sleep Modes	Ultra Deep Sleep, Deep Sleep, Online Deep Sleep, GPS Sleep
Ignition Det.	Digital Input, Accelerometer, Ext. Power, Engine RPM (CAN/OBD)
Fuel Monitor	LLS (Analog), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
Time Sync	GNSS, NITZ, NTP
Config / FOTA	FOTA Web, Teltonika Configurator (USB / BLE)
SMS Commands	Config, events, DOUT control, debug
Scenarios	Green driving, speeding, idling, immobilizer, iButton, towing, crash, geofence, trip

APPLICATIONS

Vehicle & fleet telematics · CAN bus data monitoring · Driver behavior & green driving · Fuel monitoring via CAN or analog · Immobilizer & stolen vehicle recovery · iButton driver identification · Temperature & humidity monitoring via BLE sensors

CERTIFICATIONS

FCC	IC	PTCRB	AT&T;	RoHS
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