

HARDWIRED ASSET TRACKER

BHW920G

LTE Cat-1 Tracker

A compact hardwired GNSS tracker for vehicles and equipment. The BHW920G reports over LTE Cat-1 with GSM fallback, pairs with Bluetooth LE 4.0 accessories, and adds digital & analog I/O for green driving, crash, jamming, and towing detection — all in a rugged, IP54-rated enclosure.



LTE Cat-1 / GSM

5-Constellation GNSS

Bluetooth LE 4.0

IP54 Rated

KEY FEATURES

- ✓ LTE Cat-1 / GSM global network coverage
- ✓ 5-constellation GNSS for fast, accurate fixes
- ✓ Bluetooth LE 4.0 for accessory pairing
- ✓ IP54 ingress protection
- ✓ Digital & analog I/O for sensor integration
- ✓ 128MB internal flash memory
- ✓ Green driving & crash detection
- ✓ Jamming detection
- ✓ Towing detection
- ✓ Auto & manual geo-fencing
- ✓ FOTA updates & remote configuration
- ✓ OBDII dongle support

APPLICATIONS

Vehicle & Asset Tracking

Driver Behavior Monitoring

Green Driving Programs

Fuel Monitoring

Cold Chain & Cargo Monitoring

Stolen Vehicle Recovery

ELD & OBDII Telematics

BHW920G — Full Technical Specifications

NETWORK & OPERATING BAND

LTE FDD (QJIB0)	B1/B3/B7/B8/B20/B28
LTE FDD (QKIB0)	B2/B3/B4/B5/B7/B8/B28/B66
GSM (both)	B2/B3/B5/B8
LTE DL / UL	10 / 5 Mbps
GPRS DL / UL	85.6 / 85.6 Kbps
Protocol	TCP, UDP, TLS, MQTT, SMS

GNSS SPECIFICATIONS

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

INTERFACES

Digital Inputs	1
Digital Outputs	1
Analog Inputs	1
USB	2.0 Micro-USB
GNSS Antenna	Internal high gain
Cell Antenna	Internal high gain
LED Indicators	2 status LEDs (Navigate + Status)
Memory	128MB internal flash
Bluetooth	BLE 4.0 + LE
BLE Peripherals	EYE beacon/sensor, OBDII dongle, barcode scanner, universal BLE

POWER & PHYSICAL

Weight	54 g (1.9 oz)
Dimensions	79 × 43 × 12 mm (3.11" × 1.69" × 0.47")
Backup Battery	Li-Ion 170 mAh / 3.7V
Operating Voltage	10V – 30V DC
Operating Temp.	-40°C to +85°C (-40°F to +185°F)
Ingress Protection	IP54
SIM	Micro-SIM

POWER CONSUMPTION

Ultra Deep Sleep	< 2 mA @ 12V
Deep Sleep	< 3 mA @ 12V
Online Deep Sleep	< 8 mA @ 12V
GPS Sleep	< 12 mA @ 12V
Nominal	< 28 mA @ 12V
Peak / Full Load	< 2 A @ 12V

FEATURES & SCENARIOS

Sensors	Accelerometer
Sleep Modes	Ultra Deep Sleep, Deep Sleep, Online Deep Sleep, GPS Sleep
Ignition Detection	Digital input, accelerometer, ext. power, engine RPM (OBD)
Fuel Monitor	LLS (analog), 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, jamming, towing, crash, geofence, trip

CERTIFICATIONS

CE/RED	E-Mark	RCM	CITC	TRA
SIRIM	SDPPI	Anatel	RoHS	REACH