

HARDWIRED ASSET TRACKER

BHW920NA

LTE Cat-M1 / NB-IoT Hardwired Tracker

A compact hardwired LTE Cat-M1 / NB-IoT / GSM GNSS tracker with Bluetooth LE for vehicles and equipment. The BHW920NA wires directly into a 10-30V DC power source and pairs with OBDII dongles, EYE sensors, and other BLE accessories for fuel, ignition, and driver-behavior monitoring.



4G

Cat-M1

NB-IoT

BT LE

KEY FEATURES

- ✓ LTE Cat-M1 / NB-IoT / GSM global connectivity
- ✓ 5-constellation GNSS for fast, accurate fixes
- ✓ Bluetooth LE 4.0 for sensor & accessory pairing
- ✓ IP54-rated for demanding installs
- ✓ Digital & analog I/O for auxiliary sensors
- ✓ 128MB internal flash memory
- ✓ Green driving & crash detection
- ✓ Jamming detection & alerting
- ✓ Towing detection
- ✓ Auto & manual geo-fencing
- ✓ FOTA updates & remote configuration
- ✓ OBDII dongle support for fuel & diagnostics

APPLICATIONS

Vehicle & Asset Tracking

Driver Behavior Monitoring

Green Driving Programs

Fuel Monitoring

Cold Chain & Cargo Monitoring via BLE Sensors

Stolen Vehicle Recovery

ELD & OBDII Telematics

BHW920NA — Full Technical Specifications

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 I/O	1 input, 1 output
Analog Input	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
SIM	Micro-SIM

POWER CONSUMPTION

Ultra Deep Sleep	< 2 mA @ 12V
Deep Sleep	< 3 mA @ 12V
Online Sleep	< 8 mA @ 12V
GPS Sleep	< 12 mA @ 12V
Nominal	< 28 mA @ 12V

NETWORK & OPERATING BANDS

LTE Cat-M1	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19 /B20/B25/B26/B27/B28/B66/B85
LTE Cat NB2	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19 /B20/B25/B28/B66/B71/B85
GSM (2G)	B2 / B3 / B5 / B8
LTE DL / UL	588 / 1119 Kbps
GPRS DL / UL	107 / 85.6 Kbps
Protocol	SMS (text/data), TCP, UDP

PHYSICAL & POWER

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

FEATURES & SCENARIOS

Sensors	Accelerometer
Sleep Modes	Ultra Deep Sleep, Deep Sleep, Online 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

Anatel

RoHS

REACH