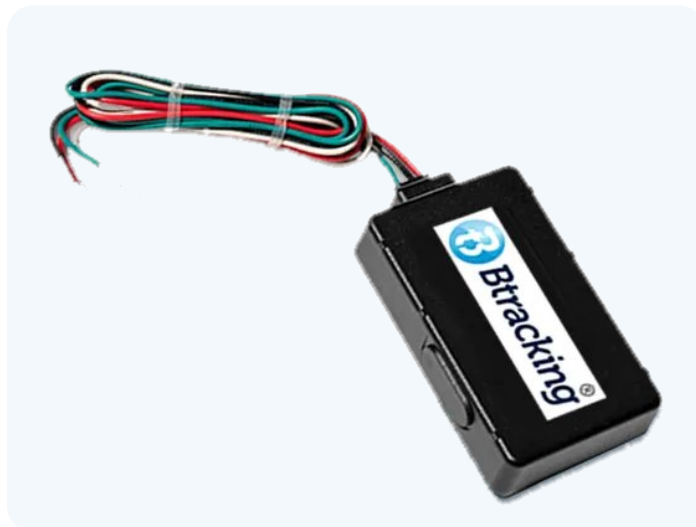


HARDWIRED ASSET TRACKER

BHW123

LTE Cat-M1 Sealed Asset Tracker

A compact, ruggedized GPS asset tracker built for flexible wired installation on vehicles and equipment. The BHW123 reports over LTE Cat-M1, runs on 9V–32V DC vehicle power with a Lithium-Ion backup battery, and withstands harsh conditions in an IP65-sealed enclosure.


LTE Cat-M1
IP65 Sealed
9V–32V DC Power
20,000-Msg Buffer

Weight	100 g (3.53 oz)	Dimensions	89 × 50.1 × 19.2 mm (3.50" × 1.97" × 0.75")
Backup Battery	Lithium-Ion 180 mAh	Operating Temp	–30°C to +60°C (–22°F to +140°F)
Operating Voltage	9V – 32V DC	GNSS Accuracy	< 2.5 m CEP open sky
Ingress Protection	IP65	SIM	External SIM

KEY FEATURES

- ✓ Flexible installation — wired, 12V, or OBD power
- ✓ Compact, ruggedized design
- ✓ IP65 sealed enclosure
- ✓ Remote safety lockout
- ✓ Driver monitoring
- ✓ Battery assurance
- ✓ Comprehensive digital & analog I/O
- ✓ Triple-axis gyroscope & accelerometer
- ✓ Edge intelligence (PEG)
- ✓ 32 built-in geo-fences
- ✓ 20,000-message buffer
- ✓ Global LTE Cat-M1 coverage

APPLICATIONS

Vehicle & Asset Tracking
Equipment Monitoring
Stolen Vehicle Recovery
Driver Behavior & Performance Monitoring
Remote Safety Lockout
Covert Hardwired Installation

BHW123 — Full Technical Specifications

NETWORK / OPERATING BAND

LTE Cat-M1	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 MHz
GSM/GPRS	850 / 900 / 1800 / 1900 MHz
Protocol	SMS, UDP Packet Data

GNSS SPECIFICATIONS

Constellation	GPS + GLONASS + BeiDou + Galileo + QZSS
Tracking Sens.	-157 dBm
Acq. Hot Start	-157 dBm
Acq. Cold Start	-146 dBm
Accuracy CEP	< 2.5 m open sky
Update Rate	Up to 5 Hz

POWER

Low Power Sleep	< 500 μ A @ 12V
Radio-active Sleep	< 15 mA @ 12V
GPS + Cell Idle	< 60 mA @ 12V

INTERFACES & I/O

Digital Input	1× high/low selectable, 0–32 VDC
Digital Output	1× open collector relay, 150 mA
Serial	1× USB port
Cell Antenna	Internal
GPS Antenna	Internal
Accelerometer	Triple-axis — impact, motion sense
Gyroscope	Triple-axis — tilt, yaw, roll
Geo-fences	32 built-in
Buffer	20,000 messages

ENVIRONMENTAL

Ingress	IP65 (CalAmp assembled)
Operating Temp	-30°C to +60°C (primary power)
Battery Temp	-20°C to +60°C (on internal battery)
Storage Temp	-10°C to +25°C ≤ 6 months
Humidity	90% RH @ 50°C non-condensing
Shock/Vib.	MIL-STD 202G, 810F, SAE J1455
ESD	IEC 61000-4-2 (4KV test)

CERTIFICATIONS

FCC

IC

PTCRB

CE/RED