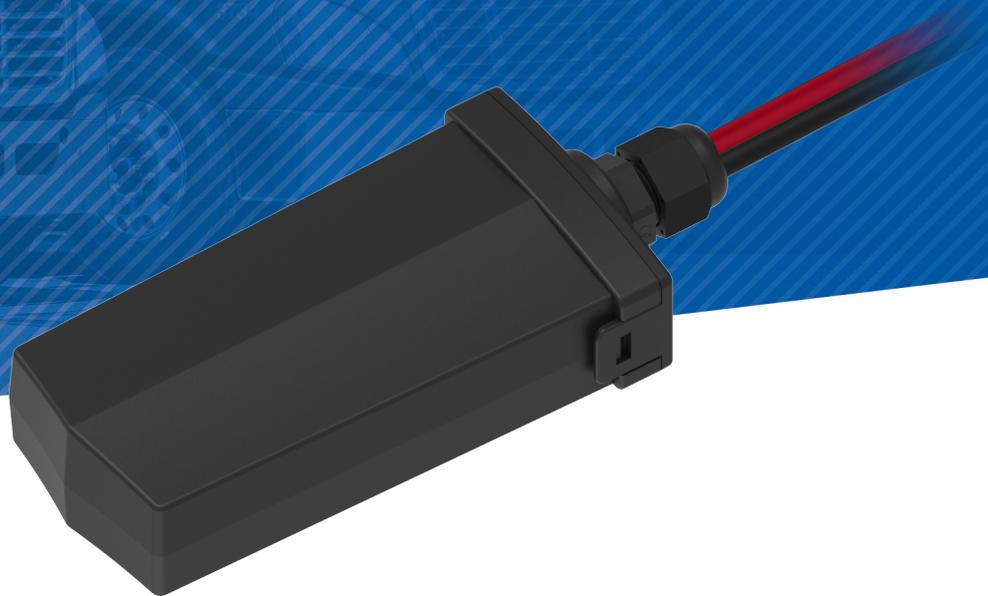


BQ02

CAT-1+ 2G Easy Install Tracker

BQ02 is a self-installed, two-wire, IP68 GPS tracker providing real-time location tracking with easy installation and reliable performance. Its compact design ensures discreet placement, making it ideal for fleet management, asset tracking, and security. It is also well suited for insurance applications and connected car services with its crash data reconstruction and analysis functionality. Benefit from improved operational efficiency, cost savings, and peace of mind with accurate and dependable GPS insights. Perfect for those seeking a simple yet effective tracking solution.



Features



4G CAT-1 with 2G fallback



Easy Installation



IP68



Driving Behavior
Detection



Crash data



BLE 5.0

SPECIFICATIONS

NETWORK

Data Support	TCP, UDP, SMS
LTE CAT-1	EMEA Version: B1/B3/B5/B7/B8/B20 America Version: B1/B2/B3/B4/B5/B7/B8/B28/B66
LTE Power	Class3 (23dBm+/- 2dB)
LTE Data	CAT-1: DL: 10Mbps, UL: 5Mbps
GSM	EMEA: 900/1800 Mhz South America: 850/900/1800/1900MHz
GPRS Power	Class 1
SIM Card	1.8/3.0V

GNSS

Location Technology	GPS Engine GPS/Glonass/Galileo/BeiDou GPS/QZSS L1 C/A, Glonass L10F BeiDou B1, Galileo E1 B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
Concurrent GNSS	3
Update Rate	1 Hz
Channels	66
Tracking sensitivity	-165dBm
Cold Start Open Sky	32S Open Sky
Aided Start	2S Open Sky
Reacquisition	1S Open Sky
Assisted GPS	Supported
Antenna	Patch Internal

ELECTRICAL

Operating Voltage	8-40V DC operational for 12V & 24V Vehicle support per SAE J1455 2mA 12V (Sleep)
Power Consumption	50mA 12V (Power Save) 110mA 12V (Active Tracking)
Backup Battery	LI-PO 220mAh Battery Recharging Range is 0 to +45°C

ON BOARD

CPU	ARM Cortex M4
Flash Memory	8Mbit
3D Accelerometer	On Board

INTERFACE

Ignition Sense	One dedicated wire for Ignition
Gnd	Ground
Status LEDs	GNSS, Network, Power
BLE 5.0	for Wireless Sensor

CONNECTORS

Connector Type	2 Wire
Mini USB	1 Mini USB (configuration/debug)
Power Switch	Device Power ON/Off Switch
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal (4FF)

PHYSICAL

Dimensions	110(L) x 554(W) x 22(H)mm
Weight	90g

ENVIRONMENTAL

IP Rating	IP68
Operating Temperature	-40 ~ +85° C (without Backup Battery) -10 ~ +50° C (with Backup Battery)
Humidity	95%RH @ 50° C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B
RoHS	Compliant

GENERAL

Communication Mode	LTE/GPRS and TCP/UDP/SMS
Location Technology	66 Channels GNSS
Operating Voltage	12 and 24 Volt Vehicle Systems

KEY FEATURES

- Internal GSM Antenna for better security
- User Profiles for controlling via SMS
- GSM jamming detection
- High Sensitive GPS engine
- Internal or external antennas option
- GPS and Glonass support
- Low power consumption in sleep mode
- Back up battery option
- Day, Time and speed based geo-fences
- 128 Way points
- Main and backup battery voltage management
- Event management & output configuration
- Combine events and configuration