DAKTECH

Bolt OBD

Cellular 2G or LTE-M / NB-IoT

Compact and affordable vehicle tracking device featuring simple plug-and-play installation for fleet management, driver safety and behavior monitoring, theft recovery, and more

Real-Time Tracking

High-precision GPS/GLONASS tracking device plugs into existing OBDII ports

Plug-and-Play

Multiple installation options (traditional plug-and-play, splitter installation, or secure with cable ties)

Driver Behavior

Speeding, harsh braking and cornering, accident and rollover detection

Run Hour Monitoring

Electronic Odometer Readings

Movement-Based Tracking

Accelerometer for Smart Movement-Based Tracking

Connectivity

2G	2G: SARA-G350-02S-01 850/900/1800/1900 MHz
LTE-M / NB-IoT	uBlox SARA-R410M Modem operates on all major global LTE-M and NB-IoT bands. Supported LTE bands: 1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 26*, 28 (*roaming bands)
SIM Size & Access	Internal Nano 4FF SIM

Location

Module	uBlox EVA-M8
Constellation	Concurrent GPS / GLONASS
Channels	72 Channel High Sensitivy Receiver
Tracking Sensitivity	-167dBM industry-leading tracking performance
GNSS Assistance	GNSS almanac data for greater sensitivity and position accuracy
Low Noise Amplifier	GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail

Power

Input Voltage	8-36V DC (max). OBDII connector draws power from vehicle's OBD port
Self-Resetting Fuse	Built-in self-resetting fuse makes installation simple and safe. Stringent automotive power "load dump" tests are conducted to ensure operation in the harshest electrical systems.
Operating Current	~25/50mA when moving
Sleep Current	<1mA

Mechanics / Design

Dimensions	71 x 46 x 24 mm (2.8 x 1.81 x 0.94")
Weight	48 g (1.69 oz)
Housing	ABS Polycarbonate Plastic
Installation	OBDII standard connector draws power from the OBDII port to operate

Mechanics / Design *(continued)*

Operating Temperature	-20°C to +60°C
GPS Antenna	Internal
Cellular Antenna	Internal
RF Antenna	Internal
3-Axis Accelerometer	3-Axis Accelerometer to detect movement, high G-force events, and more
Diagnostic LED	Diagnostic LED signifies operation status
Flash Memory	Store weeks of records if device is out of cellular coverage. Storage capacity for over 10 days of continuous 30-second logging.

Smarts

Auto-APN	Auto-APN allows the device to analyze the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware.
Accident & Rollover Detection	Configure accident and rollover alerts triggered by extreme changes in velocity and orientation of vehicle or equipment. Second-by-second GPS data is saved on the device's flash memory, with a capacity of approximately 2 hours of data. In the event of an accident, a subset of the data (60 seconds before / 10 seconds after) is uploaded to the server automatically (if configured) or can be requested manually for a detailed reconstruction of the incident.
Driver Safety & Behavior	Monitor speeding, harsh acceleration, braking, cornering, idling, and more to improve safety and prevent unnecessary wear on vehicles
Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
Preventative Maintenance	Set reminders based on distance traveled and run hours to reduce maintenance and repair costs
Real-Time Tracking	Device remains continuously connected while on the move for real-time asset tracking
Run Hour Monitoring	Calculate run hours and distance traveled (odometer) to understand and optimize asset utilization
Theft Recovery	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking for asset retreival

Device Management

Flexible Configuration	Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application
OEM Server	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system

Integration

Third-Party Integration	TCP Direct or HTTPS Webhook

Security

Data Security	Military-level AES-256 Encryption from device to OEM Server to protect the integrity and confidentiality of telematics data. Data forwarded to third-party systems is sent via HTTPS for end-to-end security.

Warranty

Manufacturer's Warranty	One year manufacturer's warranty

Certifications

Please contact us for a full list of compliance specifications and documentation for your region.	**LTE-M / NB-IoT** - FCC, ISED, CE (DoC) **2G** - ICASA, CE (Doc)