BOLT2

Cellular LTE-M (Cat-M1) / NB-IoT

digital matter

- High-performance, high-precision GPS tracking device
- Plugs into existing OBDII ports for real-time vehicle and fleet tracking
- Supports driver safety and behavior monitoring with accident and rollover detection
- Backup battery in case of loss of power or tampering

| Real-Time Tracking | Plug and Play | End-to-End Security | Highly Configurable | Future Proof Connectivity | White-Label & Integration Ready |

Asset Visibility & Recovery

Monitor location and movement with the option to activate real-time tracking in case of loss or theft.

Real-Time Tracking

Device remains continuously connected while on the move for real-time vehicle tracking.

Tamper Alerts

Receive notification when device is unplugged or loses power.

Accident Detection

Alerts for accidents and rollovers, activated by significant changes in velocity and orientation.

Driver Safety & Behavior

Monitor speeding, harsh acceleration, braking, cornering, and more.

Geofence Alerts

Receive notification if asset enters or exits designated locations.

Run Hour Monitoring

Calculate run hours and distance travelled (odometer) to optimize asset utilization.

Preventative Maintenance

Set reminders based on distance travelled and run hours to maintain asset health.

Backup Battery

Features an internal backup battery in case of loss of power or tampering.

FLEET MANAGEMENT | VEHICLES | EQUIPMENT | LEASING | INSURANCE | COMPLIANCE

Connectivity

Cellular Module	Nordic nRF9160 operates on all major global LTE-M and NB-IoT bands. Supported LTE bands: LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B66 NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66
SIM Size and Access	Internal Nano 4FF SIM

Location

GNSS Module	u-blox M10
Constellations	Concurrent GPS, GLONASS, BeiDou, Galileo
GNSS Assistance	GNSS almanac and ephemeris data for greater sensitivity and position accuracy.
Low Noise Amplifier	GPS signals are filtered and boosted by a SAW filter and low-noise amplifier (LNA) allowing operation where other units fail.
Location Accuracy*	~2m CEP

* Positioning accuracy specifications are provided by the module supplier and reflect ideal conditions. Device configuration, installation, environmental conditions, augmentation services, and many other factors may lead to variations in positioning accuracy.

Power

Input Voltage	8-33V 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.
Sleep Current	<1mA
Backup Battery	300mAh LiPo internal backup battery pack.

Mechanics / Design

Dimensions	71 x 46 x 24 mm (2.8 x 1.81 x 0.94 in)
Housing	Non-branded housing is suitable for white labeling.
Installation	OBDII standard connector draws power from the OBDII port to operate.
Temperature Range	Operating: -30°C to +60°C Recommended Storage: 10°C to 30°C, Humidity 30%. Store in a cool, dry place.
Cellular Antenna	Internal
GPS Antenna	Internal
3-Axis Accelerometer	3-Axis accelerometer to detect movement, high g-force events, and more.
Diagnostic LED	Diagnostic LED indicates operation status.
Flash Memory	Store records if device is out of cellular coverage. View storage capacity here.
Onboard Speed and Heading	The device continuously monitors speed and heading, allowing for over-speed alerts as well as updates on speed and heading changes.
Onboard Temperature	The device reports internal temperature and prevents the internal battery from charging in extreme temperatures. May not be suitable for precise temperature logging purposes.

Smarts

Accident and Rollover Detection	Configure accident and rollover alerts, triggered by extreme changes in the velocity and orientation of the vehicle or equipment. Up to 2 hours of second-by-second 'black box' data is stored to provide critical accident reconstruction data.

Driver Safety and Behavior	Monitor speeding, harsh acceleration, braking, cornering, idle times 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.
GPS Jamming Detection	GPS jamming or interference can be detected and alerted on.
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 travelled (odometer) to understand and optimize asset utilization.
Tamper/Removal Alerts	Critical 'unplugged/power loss' alerts to notify users of device removal, tampering, unauthorized trips, or theft.
Theft Recovery	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking for asset retrieval.

Device Management

Flexible Configuration	Configure device parameters such as position update rate, movement and accelerometer settings, and more.
Device Management Platform	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system.
Configuration App	Configurable with DM-Link provisioning tool.

Integration

Third-Party Integration	TCP Direct or HTTPS Webhook
API	Command and configure the device via rich API functionality.

Security

| Data Security | Military-grade AES-256 Encryption from device to Device Manager to protect the integrity and confidentiality of your data. Data forwarded to third-party systems is sent via HTTPS for end-to-end security. |

Warranty

| Manufacturer's Warranty | Two-year manufacturer's warranty. Exclusions apply. |

Certifications

Please view our knowledge base for regulatory and network certifications.