

# **Bolt2**

Cellular LTE-M / NB-IoT

Compact and affordable vehicle tracking device featuring simple plug-and-play installation and backup battery for real-time 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

#### **Backup Battery**

Internal backup battery – if the device is removed from power it will continue to track for a period of time

#### **Critical Alerts**

Unplugged/power loss alerts to notify users of device removal, tampering, unauthorized trips, or theft

#### **Driver Behavior**

Speeding, harsh braking and cornering, accident and rollover detection

### **Run Hour Monitoring**

**Electronic Odometer Calculations** 

## **Movement-Based Tracking**

Accelerometer for adaptive and movement-based tracking

#### Plug-and-Play

Plug and play or splitter installation options for covert install

Powered by:

digital matter

# Connectivity

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

## Location

UBLOX EVA-M8Q with TCXO	
Concurrent GPS / GLONASS / Galileo	
72 Channel High Sensitivy Receiver	
-167dBM industry-leading tracking performance	
~2.0m CEP, 50%, 24 hours static, GPS, SBAS, -130dBm, > 6SVs	
GNSS almanac data for greater sensitivity and position accuracy	
GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail	
Cell tower location fallback for positioning when GPS can't get a fix	

## **Power**

Input Voltage	8-36V DC (max). OBDII connector draws power from vehicle's OBD port  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.	
Self-Resetting Fuse		
Operating Current	~25/50mA when moving	
Sleep Current	<1mA	
Backup Battery	200mAh LiPo internal backup battery pack	

# **Mechanics / Design**

Dimenions	71 x 46 x 24 mm (2.8 x 1.81 x 0.94")	
Weight	48 g (1.69 oz)	
Housing	ABS Polycarbonate Plastic. Non-branded housing for optional white-labeling.	
Installation	OBDII standard connector draws power from the OBDII port to operate	
Operating Temperature	-30°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 indicates 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.	

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## **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	
Tamper/Removal Detection	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 to fit any tracking application
Device Management Platform	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system
Configuration App	Configurable with DMLink provisioning tool

## 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

	Two-year manufacturer's warrant	Manufacturer's Warranty
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## **Certifications**

Please visit support.digitalmatter.com for
a full list of compliance specifications and
documentation for your region

FCC, ISED, CE, ACMA RCM, EMC, RoHS

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