

# Bolt

## Plug and Play OBDII GPS Tracker



### APPLICATIONS



Vehicle and  
fleet tracking



Powered asset  
tracking



Electronic  
Odometer



Tax and FBT  
reporting



Scheduled  
maintenance  
reminders



Anchoring and  
security of  
assets

The Bolt is a compact and economical, yet feature rich GPS/GLONASS tracking device available in 2G or 4G Cat-M1/NB-IoT versions.

The Bolt simply plugs into the vehicle's OBDII port, meaning zero install cost. Perfect for rental fleets where a hard-wired install is not desirable.

### FEATURES

- 2G or 4G Cat-M1/NB-IoT Modem
- High Sensitivity GPS with LNA
- 3D Accelerometer
- Easy plug-and-play install
- Geo-fencing and Alerts
- Electronic Odometer, scheduled maintenance reminders and log books

## MECHANICAL SPECIFICATIONS

<b>Compact Housing</b>	The compact polycarbonate housing snaps together for easy provisioning.
<b>Dimensions</b>	L 71 x W 46 x H 24 mm
<b>Operating Temperature</b>	-20°C to +60°C

## POWER

<b>Input Voltage</b>	OBDII Power Absolute Max 36V OBD Connector works in 24V vehicles
<b>Self-resetting fuse</b>	The Bolt passes stringent automotive power “load dump” tests to ensure that it will continue to operate in the harshest electrical systems. A built-in self-resetting fuse makes installation easy and safe.

## OTHER

<b>Internal Memory</b>	Sufficient memory to store over 50,000 records. Normally data is sent to the server immediately but if the device is out of range there is space to ensure no data is lost – for many weeks of driving!
<b>3-axis accelerometer</b>	Allows the Bolt to detect harsh driving events, and to go to ‘sleep’ when not moving, resulting in extremely low standby current

## CONNECTIVITY

<b>SIM Size</b>	Nano (4FF) size cellular SIM Card
<b>2G or 4G</b>	The Bolt can be manufactured for specific markets around the world.
<b>4G Modem</b>	UBLOX SARA-R410-02B This modem can be configured to operate on either LTE-CatM1 or LTE-NB1 networks.  Supported LTE bands: 1-5, 6, 8, 12, 13, 17, 19, 20, 25, 26, 28
<b>2G Modem</b>	2G: SARA-G350-02S-01 850/900/1800/1900 MHz

## GPS TRACKING

<b>GPS and Cellular Antenna</b>	Internal GPS and cellular antennas tuned by RF laboratories for optimal performance. Having the antennas inside the housing makes for very simple and quick installation.
<b>GPS/GLONASS tracking</b>	UBLOX EVA-M8 GPS Module Concurrent GPS and GLONASS tracking 72 channel high sensitivity receiver -167dBm industry leading tracking performance
<b>AssistNow Offline</b>	AssistNow Offline aiding data or extremely fast time-to-first-fix and performance in urban canyon environments
<b>Low Noise GPS Amplifier (LNA)</b>	GPS signals are boosted by a special low-noise amplifier (LNA). This allows operation where normal units will fail to receive GPS signal

## FIRMWARE SMARTS

**OTA Configuration** The Bolt can be remotely configured and updated OTA (over the air). Device management is performed from Digital Matter's OEM Server device management platform.

**Auto-APN** Auto-APN allows the Bolt to analyse the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware.

**Flexible Logging Parameters** The Bolt trip logging is flexible and can be configured to log based on a variety of parameters including: Elapsed time, Distance travelled, Change in heading, Change in speed, On Stationary, Accelerometer events (harsh driving)

**Accident and Rollover Detection** The Bolt uses the built-in accelerometer to detect high G impacts such as accidents and rollovers and reports these events to the server for emergency alerting.

**Harsh Driving** The Bolt automatically calibrates its built-in 3 axis accelerometer and uses this to detect harsh driving events:

- Excessive acceleration
- Harsh braking
- Cornering at speed

These events are logged in the Bolt along with additional event statistics that allow back-end server platforms to perform sophisticated driver profiling and scoring.

**Accident Data** The Bolt keeps a second-by-second "black box" recording of valuable GPS and accelerometer data for a two hour window. This data can be automatically uploaded to the server when an accident is detected, or it can be requested manually.

**Geo-Fences** The Bolt has the capacity to hold hundreds of geo-fences. A future firmware update will enable the Bolt to download geo-fences from the server. The Bolt could use this geo-fence information to:

- Implement arrival and departure alerts
- Implement "No-Comms" areas