

Bolt

Plug and Play OBDII GPS Tracker



GPS Boss

Insights | Assurance | Recovery



APPLICATIONS



Vehicle and
fleet tracking



Powered asset
tracking



Run hour
monitoring



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
- Run hours, scheduled maintenance reminders and log books

MECHANICAL SPECIFICATIONS

Compact Housing The compact polycarbonate housing snaps together for easy provisioning.

Dimensions L 71 x W 46 x H 24 mm

Operating Temperature -20°C to +60°C

POWER

Input Voltage OBDII Power
Absolute Max 36V

Self-resetting fuse 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

Internal Memory 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!

3-axis accelerometer Allows the Bolt to detect harsh driving events, and to go to ‘sleep’ when not moving, resulting in extremely low standby current

CONNECTIVITY

SIM Size Nano (4FF) size cellular SIM Card

2G or 4G The Bolt can be manufactured for specific markets around the world.

4G Modem 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

2G Modem 2G: SARA-G350-02S-01
850/900/1800/1900 MHz

GPS TRACKING

GPS and Cellular Antenna 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.

GPS/GLONASS tracking UBLOX EVA-M8 GPS Module
Concurrent GPS and GLONASS tracking
72 channel high sensitivity receiver
-167dBm industry leading tracking performance

AssistNow Offline AssistNow Offline aiding data or extremely fast time-to-first-fix and performance in urban canyon environments

Low Noise GPS Amplifier (LNA) 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.
Text Message Setup	The Bolt can be sent text messages to set the server and other details
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	<p>The Bolt automatically calibrates its built-in 3 axis accelerometer and uses this to detect harsh driving events:</p> <ul style="list-style-type: none">• Excessive acceleration• Harsh braking• Cornering at speed <p>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.</p>

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	<p>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.</p> <p>The Bolt could use this geo-fence information to:</p> <ul style="list-style-type: none">• Implement arrival and departure alerts• Implement "No-Comms" areas