



APPLICATIONS



Vehicle and fleet tracking



Powered asset tracking



Run hour monitoring



Tax and FBT reporting



Scheduled maintenance reminders



Anchoring and security of assets

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

The Reporter 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 Reporter 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 Reporter 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 Reporter 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 Reporter 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 Reporter 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 Reporter can be sent text messages to set the APN, server and other details

Flexible Logging Parameters The Reporter 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 Reporter 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 Reporter 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 Reporter along with additional event statistics that allow back-end server platforms to perform sophisticated driver profiling and scoring.

Accident Data The Reporter 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 Reporter has the capacity to hold hundreds of geo-fences. A future firmware update will enable the Reporter to download geo-fences from the server. The Reporter could use this geo-fence information to:

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