



BTG500M Asset and Vehicle Tracking

The BTG500M OBD has a super small size, it could be the smallest on the market and it is a high performance tracking device, designed for vehicle monitoring and tracking.

The BTG500M has an integrated GNSS receiver, includes an LTE Cat-M (or NB-IoT) and BLE technology for wireless data communication. It is equipped with a super cap which is used to enhance the power supply as a backup power supply for short periods.

📦 ~80g

📏 93.0 x 51.0 x 15.3 mm

📶 CATM1/NB/2G

🌡️ Storage Operation -40°C to +85°C
-30°C to +75°C

- 📏 Compact size
- 🔧 Simple installation
- 📋 LED status indicators for GNSS
- 📊 Driving behaviour report
- 📏 Up to 16 geofences (polygons and circles)
- 📶 LTE Cat-M1 & NB-IoT & GPRS
- 🔔 Standard CAN Bus interface
- 💧 SMS, UDP, TCP, FTP AND MQTT
- 📄 BLE5.1, low power consumption
- 🚗 Built-in accelerometer

The BTG500M interface is compatible with the standard CAN interface. An integrated 3-axis accelerometer enables motion detection and monitoring of driver behaviour. An internal 10F back-up capacitor allows continuous operation when the device is disconnected from the main power supply.

Installation of the BTG500M unit requires no programming knowledge as it is supplied with easy-to-configure application software and an extended AT command set. Reports can be triggered periodically or in response to events such as motion, speeding, sudden acceleration and braking, and geo-fence violations.





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🌐 www.btgIoT.com

TECHNICAL SPECIFICATIONS BTG500M

CELLULAR

LTE Cat-M, NB-IoT

LTE-FDD Bands: 1/2/3/4/5/8/12/13/18/19/20/25/26/27/28/66/85

GSM: 850/900/1800/1900

Integrated high performance antenna

GNSS

GPS, GLONASS, BeiDou & Galileo

Tracking Sensitivity : -161 dBm

Acquisition Sensitivity : -146 dBm

Location Accuracy : < 2.5CEP

SENSOR

Accelerometer : 3x

SOS BACKUP POWER

Type : Supper Capacitor, 10F @2.7V

Work time: Support more than 1 report after the main power disconnect

ENVIRONMENTAL

Operation Temperature: -30°C to +75°C

Storage Temperature: -40°C to +85°C

ELECTRICAL

Operating Voltage: 8V – 36V

Over voltage protected

Over current protected with resettable fuse

Power Consumption

- GPS Acquisition : ~48mA @ 12V

- GPS Tracking/Reporting : ~74mA @ 12V

- Sleep Mode : <1mA @ 12V

CARACTERÍSTICAS FÍSICAS

Dimensiones: 93.0 x 51.0 x 15.3 mm

Antenas Celular y GPS Internas

Peso : ~80g

BLUETOOTH

BLE 5.1, low power consumption

PHYSICAL

Dimensions: 48.5 x 45x 25 mm

Internal Cellular and GPS Antennas

Weight : <80g

INTERFACE CONNECTORS

Standard 16-Pin OBD connector

APPROVALS

FCC

Carrier

www.btgIoT.com