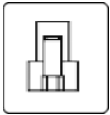




## FGT 100-MF • GPS Tracker Technical Datasheet



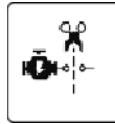
### FGT 100-MF Multifunctional - GPS tracker



RS232 & TTL Interface



External Mic



Remote Cut-Off  
(Fuel/Power)



Driving behaviours  
Analysis



Panic Button



Door Status  
Detection



## Product Summary

The FGT100-MF is a multi-functional advanced GPS tracking device optimised and especially designed for commercial fleet vehicles location tracking and eco-driving analysis purposes. It provides accurate real-time location tracking, accelerometer sensor for driver behaviour analysis, RS232 serial interface for external modules connection, two-way communication via 2g/GSM network. The FGT100-MF also features a door-sensor, and includes I/O ports to support multiple external equipment for various applications. FGT100-MF is an excellent GPS tracking device for fleet management and safety monitoring deployment.

## Key Features:

- **RS232 & TTL Interface**  
Support the accessories supporting RS232 and TTL interface.
- **External Mic**  
Extended microphone cable makes it easier to put microphone inside cab.
- **Remote Cut-Off (Fuel/Power)**  
Immobilize a vehicle by cutting off its power source/fuel supply via an installed relay.

- **Over-speed Buzzer**  
Sound buzz to remind driver to lower speed.
- **Driving behaviours Analysis (Basic)**  
Receive alerts when any of 4 kinds of dangerous driving behaviour is detected.
- **Door Status Detection**  
Useful insight into the status of a fleet vehicle; be alerted if a door is unexpectedly opened.
- **Panic Button**  
Contact dispatch or emergency support with a discreet, in-cabin SOS button.
- **Low Voltage Alert**  
You'll be alerted when the external power voltage is lower than the threshold.
- **Voice monitoring range**  
≤5 meters
- **Sensors**  
Accelerometer
- **Scenarios**  
Vehicle movement alert, Over-speed alert, Geo-fence, Voice Monitoring, Vehicle battery detection, Power supply disconnection

## Technical Specification

### GNSS Specification

<b>Positioning system</b>	GPS+BDS+LBS
<b>Positioning accuracy</b>	< 2.5m CEP
<b>Tracking sensitivity</b>	-165dBm
<b>Acquisition sensitivity</b>	-148dBm
<b>TTF (open sky)</b>	Avg. hot start ≤1sec Avg. cold start ≤35sec

### Cellular

<b>Communication network</b>	GSM
<b>Frequency</b>	Quad-band 850/900/1800/1900 MHz

### Power

<b>Battery</b>	450mAh/3.7V industrial-grade Li-Polymer Battery
<b>Input voltage</b>	9-36VDC

### Interface

<b>LED indication</b>	GNSS (Blue), Cellular (Green), Power (Red)
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<b>SIM</b>	Standard-SIM
<b>Data storage</b>	32+32Mb
<b>Digital inputs</b>	ACC, input, SOS
<b>Digital outputs</b>	Relay, output1, output2

### Operating environment

<b>Operating temperature</b>	-20°C to +70°C
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### Physical specification

<b>Dimensions</b>	80.9 x 55.8 x 23.4mm
<b>Weight</b>	95g

