



Overt and covert systems to locate, monitor and protect people and property worldwide

GT8020E

CELLULAR

IN-VEHICLE TRACKER

What is the GT8020E?

The GT8020E is an in-vehicle tracking unit that allows users to track and monitor their mobile assets in GSM service areas. It uses a latest generation GPS system to acquire its exact location and then transmits this and other relevant information to the customer's monitoring centre or internet via the local GSM network.

The GT8020E is a highly cost-effective solution with a rich and well-targeted feature set that surpasses many more expensive devices.

What does it allow you to do?

- keep continuous track of your mobile assets: trucks, cars, delivery vehicles, boats etc
- receive alerts when your vehicles are in an accident or subject to heavy braking, or when they contravene speeding regulations
- keep track of journey stops and starts, and the distances travelled
- be notified of attempts to interfere with or cause damage to cargo
- monitor unauthorised use or non-compliance with speed limits
- remotely activate security measures within the vehicle e.g. sound the horn, immobilise the engine
- provide additional safety & security for your employees and assets

Why buy a GT8020E for your tracking solution?

- compact and cost-effective unit
- convenience: position data sent via GPRS when available or by SMS
- unique features: built-in sensor ports and alert button – providing additional functionality for tracking & monitoring solutions, including the ability to activate security measures within the vehicle remotely
- flexibility: ability to satisfy different customer needs through a range of alarm functions and reports e.g. speeding, change of course
- quality: built to ISO9000 and all applicable quality standards
- cost-effective: one of the lowest cost satellite tracking systems available



GT8020E in-vehicle tracker

Package includes:

- wiring loom, panic button and on-board and remote LEDs
- GPS & GPRS antennas
- Vehicle cut relay
- 12 month warranty

Key Features:

- SiRFIIIstar GPS chipset
- real-time GPS tracking & vehicle status monitoring
- GPRS and/or SMS transmission
- internal and external GPS antennas
- 6 output, 8 input connections for attachment to vehicle
- 4 in-built LED indicators for power, GPS/GSM lock, GPRS and motion sensor
- in-built motion detector/harsh braking sensor
- panic button plus remote indicator lights
- 9V–38V supply, but recommend external inverter for 24V systems
- odometer feature
- data logging (2,000 points) – activity data can be downloaded at end of day or trip

Requirements for end-to-end solution:

- SIM card from local GSM Service Provider
- enabling, presentation & mapping software

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In-vehicle tracking, monitoring and communications units with extended capabilities operating on the GSM platform

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Physical size

dimensions 117mm (L) 57mm (W) 26mm (H)
weight 121.6g

Electrical Parameters

DC Supply Voltage 12V nominal
DC Tolerance Voltage 9V – 38V
current – smart sleep option 40mA
current idle, awaiting commands 75mA
current (peak) 150mA

GPRS

antenna Connector gold Male SMA
frequency Range (MHz) Quad band 900/1800/850/1900
channel Spacing (Hz) 200
GPRS Connectivity GPRS Type B class 10 with active external antenna
SIM Card Interface +1.8V/+3V

Backup Battery

battery type Li-Polymer 3.7V
battery capacity 1050 mA/H
charge type built-in charge circuit

Communication

type GPRS/SMS/RS232/NMEA

Environmental Parameters

operating temperature -20°C to +50°C
storage temperature -30°C to +60°C

IO Connections & GPS

minimum wire connections main power, ground, ignition
connections to 6 output 8 input 20 pin connector
external LED indicator connector 10 pin connector
GPS chipset type SiRFStar III
tracking sensitivity -159 dBm
Time to first fix cold start 42 sec typical
warm start 38 sec typical
hot start 1 sec
reacquisition 0.1 sec
external panic switch 10 pin connector (as above)



GT8020E in-vehicle tracker

Inputs:

- engine ignition
- bonnet/hood open
- door open
- alarm status signal
- fuel level indicator
- keyless lock/unlock
- signal light

Outputs:

- parking light
- central door lock
- central door unlock
- starter kill output
- siren/horn output
- fuel pump
- hazard lights
- 2 additional spare outputs

Internal:

- GPS odometer
- local speed detection
- tow-away detection
- on-board keyless entry learning facility
- harsh braking/accident detection
- fuel management/idling

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