

Vehicle Telematics

ABAX FMT100 Datasheet



OVERVIEW

The ABAX FMT100 IoT Gateway is ideal for monitoring of all types of vehicles. It's large antenna ensures a strong signal which makes it perfect for concealed installations.

It features a waterproof enclosure and a backup battery when needed. The ABAX FMT100 enables improved operating efficiency, vehicle recovery, and streamlined regulatory compliance.

It is part of ABAX IoT global network that combines asset tracking, fleet management, and compliance solutions in a single platform.

DESIGNED TO ACCESS THE IOT NETWORK

A gateway of the ABAX global IoT network
Advanced positioning system that simultaneously reads from multiple independent satellite systems including GPS, Glonass, Galileo and BeiDou global navigation satellite systems.

A powerful internal antenna for discreet installation under the hood.

Real-time GPS location with live updates.

Automatic OTA (Over The Air update).

TYPICAL APPLICATIONS

- Track vehicles - all brands and types
 - Corporate vehicles
 - Company vehicles
 - EVs
 - Private vehicles with mileage claim
- Live Tracking
- Fleet monitoring
- Driving Behaviour

PRODUCT HIGHLIGHTS

- Track, monitor and optimise vehicle location
- Ensure your corporate vehicles are tax compliant
- Easy to install directly onto the battery
- Ideal for concealed installations
- Water and weatherproof enclosure
- Recover lost assets communicating with ABAX MINI2



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GENERAL SPECIFICATIONS

Dimension	92,5x57,6x14 mm
Weight	63g
Storage temperature	-40°C to +85°C
Operating temperature	-40°C to +85°C
Supply voltage	10 to 30V DC
Cellular	GSM, Quad-band 850/900/1800/1900 MHzGPRS multi slot class 12 data transfer, GPRS Mobile Station Class B
Battery capacity	170 mAh / 3.7 V
Power consumption	At 12V < 1.47 mA (Ultra Deep Sleep) At 12V < 3.21 mA (Deep Sleep) At 12V < 3.75 mA (Online Sleep) At 12V < 5.48 mA (GPS Sleep) At 12V < 24.41 mA (Nominal)
Postion updates	Every 60 second when powered and in movement, once a day still and once a day when not powered

ENVIRONMENTAL DATA, RELIABILITY, CERTIFICATION

Approvals	CE, RoHS, REACH, EAC
IP Grade	IP65

GNSS SPECIFICATIONS

GPS, GLONASS, GALILEO, BEIDOU
Receiver 33 channel
Tracking sensitivity -165 dBM Accuracy < 2.5m CEP Hot start < 1 s Warm start < 25 s Cold start < 35 s

MOBILE CONNECTIVITY SPECIFICATIONS

Quad-band GSM, 850 / 900 / 1800 / 1900 MHz bands
GSM network positioning based on antenna site identification
Global support for antenna site triangulation and positioning
Ca. 97% coverage for Europe's GSM network (in terms of GSM positioning)
Timing advance support

INTERFACES

Bluetooth	4,0 + LE. Universal BLE sensors support
Configuration	Automatic OTA (Over The Air update) firmware and configuration updates
Sensors	Accelerometer, voltage and GNSS
Antenna	GNSS - Internal High Gain Cellular antenna - Internal GSM High Gain
Memory	128 MB Internal flash memory