

GPS Platform – In-Vehicle Unit



GSM Aerial

GPS Antenna

GPS Unit

Product Model- FM1100

Made in Germany

GPS Platform – In-Vehicle Unit

GSM Aerial

GPS Antenna

GPS Unit

Product Model- AVL5

Made in Hong Kong



Features of GPS Platform

- Web based user interface
- 1 ~ 2 minutes location update
- Real time polling / Historical information
- Management reports
- Value Added Services operate on GPS platform
- Driver behavior monitoring service ,such as breaking, acceleration etc.

2.4 Electrical characteristics

CHARACTERISTIC DESCRIPTION	VALUE	Min.	Typ.	Max.	Unit
Supply Voltage:					
Supply Voltage (Recommended Operating Conditions)		10		30	V
Digital Output (Open Drain grade):					
Drain current (Digital Output OFF)				120	uA
Drain current (Digital Output ON, Recommended Operating Conditions)				300	mA
Static Drain-Source resistance (Digital Output ON)				300	mOhm
Digital Input:					
Input resistance (DIN1, DIN2, DIN3)		15			kOhm
Input Voltage (Recommended Operating Conditions)		0		Supply voltage	V
Input Voltage threshold (DIN1)			7,5		V
Input Voltage threshold (DIN2, DIN3)			2,5		V
Analog Input:					
Input Voltage (Recommended Operating Conditions), Range1		0		10	V
Input resistance, Range1			120		kOhm
Input Voltage (Recommended Operating Conditions) Range2		0		30	V
Input resistance, Range2			146,7		kOhm
Output Supply Voltage 1-Wire:³					
Supply Voltage		3,3		3,6	V
Output inner resistance			7		Ohm
Output current ($U_{out} > 3.0V$)			30		mA
Short circuit current ($U_{out} = 0$)			130		mA

2.5 Absolute Maximum Ratings

CHARACTERISTIC DESCRIPTION	VALUE	Min.	Typ.	Max.	Unit
Supply Voltage (Absolute Maximum Ratings)		-32		32	V

Hardware Specification FM1100

Hardware Specification AVL5

Feature	Characteristics
Dimension	110mm*66mm*27mm
Exterior Power Supply	DC 12V -- 24V
Inner lithium battery	DC 3.8V -- 4.2V
Exterior GSM antenna	Receive GSM signal better
Exterior GPS antenna	Receive GPS signal better
Power Consumption when exterior voltage is 12V	Active mode(avg.) < 100mA Sleep mode < 5mA
Operating Temperature Range	-20°C to +60°C
Air pressure	860Kpa --1060Kpa
Humidity	Up to 75% non-condensing
Position accuracy	10 --15 meters
GSM chip	SIMCOM, support 3 frequency GSM 900/1800 /1900MHZ (4 Frequency GSM 850/ 900/1800 /1900MHZ is optional)
GPS chip	Sirf-Star III (super-sensitivity and high accuracy)
Tremble Intensity	
LED	3 LEDs indicates GSM, GPS signal, and trembling status
Button(not in the basic version)	2 buttons, report location, quick dial (optional)

Our GPS Platform Common Features

- Track vehicle online on Map.
- Track multiple or grouped vehicle location in single Map.
- History or playback of routes travelled in last 6 months.
- Geo Fence creation for getting alarm if the vehicle moved to UN Authorized location.
- In zone alarm creation, if vehicle reach the pre assigned location.
- Excess speed driving triggered alarm .
- Engine ON/OFF status triggered alarms.
- IDLE time on reports.
- Remote switch OFF vehicle on emergency by sms (Immobilization optional).
- After Duty hours or Friday triggered notification of vehicle use.
- Single or multiple vehicle detailed reports on html, xml or excel.
- OFF day vehicle usage alarms.
- Ignition switch ON after working hours Alarms.

All Triggered Notification by email (Free) and if need as SMS will cost Extra fee.

GPS Advantages

- Reduce Fuel and Maintenance Costs** - The average operating cost per vehicle is about AED 2.50 per Km. A company can reduce at least 25 km per week for each vehicle with a GPS Tracking System.
- Reduce Delay and Time Spent at Unauthorized Locations** - With our software platform you can not only track but easily establish an alert system for events like a driver going outside of a designated area or staying idle for too long.
- Reduce Operating Costs** - By monitoring activities like speeding or excessive idling you can not only save fuel, but reduce damage done to the engine, brakes and tires.
- Increase Efficiency** - On average, each vehicle could complete at least one extra stop, job, or delivery per week by using the one of our web based systems.
- Reduced Overtime Payments and total control on drivers.**

Basic Tracking Platform

Reports

- Detail Event Daily report
- Speeds over Reports
- Last Known Vehicle Location
- Consolidated day report(Ignition Start/End time,Drive hrs,Vehicle idle,Odometer start/End,KM travelled.

Advanced Tracking Platform

Reports

- Detail Event Daily report
- Speeds over reports
- Last Known Vehicle Location
- Driving/Stopped Time Summary
- Device Excess Speed
- Odometer Periodic Service Report
- Engine Hours Periodic Service Report
- Distance Traveled Report
- Digital Input Summary Report(Ignition,Door,GPS,GSM,Motion,Engine,Tow)
- Driving Time Fleet Summary
- User Login Report
- Geozone Report
- Geozone Arrival Report
- Driver Event Detail
- Trip Report Detail
- Excessive Idle
- Door Open-Close (Optional)
- Temperature Monitoring (Optional)
- Fuel Monitoring (Optional)

Product Specific Optional Features -AVL5

- Fuel Monitoring (Optional)
- Temperature Monitoring (Optional)
- Remote Switch OFF/ON Engine by sms (Immobilization)

Product Specific Features –FM1100

- Fuel Monitoring (Optional)
- Temperature Monitoring (Optional)
- Authorized Driving in multiple Driver scenario (optional)

GPS System Architecture

