

GPS tracker – A case study

A GPS tracking unit is a device that uses the Global Positioning System to determine the precise location of a vehicle, person or other asset to which it is attached and also to record its position at regular intervals.

The recorded location data can be stored within the tracking unit, or it may be transmitted to a central location database through GPRS connectivity and the details can be viewed in Mobile or through on the web. The overall services offered is called the GPS Services.



GSM Specification	
GSM frequency	850/900/1800/1900 MHz
GPRS	Class 12, TCP/IP
Memory	32+32Mb
Phase error	RMSPE<5, PPE<20
Max output	GSM850/GSM900:33±3dBm GSM1800/GSM1900:30±3dBm
Max frequency error	±0.1ppm

GPS Specification	
GPS chipset	MTK high sensitivity chip
Frequency	L1, 1575.42MHz C/A code
GPS channel	66
Location accuracy	<10 meters
Tracking sensitivity	-162dBm
Acquisition sensitivity	-148dBm
TTFF (open sky)	Avg. hot start <1sec Avg. cold start <35sec

Function & Package	
Battery	270mAh/3.7V Li-Polymer battery
Working voltage/current	9-90VDC/7mA(60VDC)
Standby time	60 hours
Working time	3 hours
Operating temperature	-20°C ~ 70°C
Device weight	41g
Device dimension	78.0(L)*41.0(W)*13.0(H)mm
Box weight	190g
Box dimension	123(L)*85(W)*49(H)mm

Aashaya provides complete solution based on the GPS (IRNSS) and Includes a HW device, Server Side software, and tracking software.

Applications: Taxi cab services, School bus (with RFID), Truck Services, etc.

For any further queries, please contact us at 99010-23235