

# LogisCarE

GPS VEHICLE MONITORING

## PERSONAL



**Water Resistant**

**Full Power Management**

**400 Hours Standby Time, Up to 200 Days Standby Time With External Battery Accessory**

**I/O Interfaces to Connect Directly to Vehicles**

The water resistant **PERSONAL** is a powerful GPS locator designed for lone worker, vehicle, pet and asset tracking applications. Its built-in GPS receiver has superior sensitivity and fast time to first fix. Its quad band GPRS/GSM subsystem supports 850/900/1800/1900 MHz allowing the **PERSONAL**'s location to be monitored in real time or periodically tracked by a backend server and mobile devices. Its built-in 3-axis accelerometer allows motion detection and extends battery life through sophisticated power management algorithms. System integration is straightforward as complete documentation is provided for the full featured @Track protocol. The @Track protocol supports a wide variety of reports including emergency, geo-fence boundary crossings, low battery and scheduled GPS position.



### Advantages

- Water resistant
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded full featured @Track protocol
- Internal u-blox chipset
- Internal GSM/GPS antennas
- MMCX type RF connector for external GPS antenna
- Low power consumption, long standby time with internal battery
- Internal 3-axis accelerometer for power conservation and motion detection
- Full power management, can be connected to external DC power or battery
- CE/FCC/PTCRB/Anatel certified

[www.online-gps-monitoring.com](http://www.online-gps-monitoring.com)

## PERSONAL



### GSM Specifications

Frequency	Quad band: 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 12 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	GSM850/GSM900: 33.0±2 dBm DCS/PCS: 30.0±2 dBm
Dynamic Input Range	-15 ~ -108 dBm
Receiver Sensitivity	Class II RBER 2% (-107 dBm)
Stability Of Frequency	< 2.5 ppm
Max Frequency Error	±0.1 ppm

### GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -148 dBm Hot start: -160 dBm Tracking: -162 dBm
Position Accuracy	Autonomous: < 2.5m SBAS: 2.0m
TTF (Open Sky)	Cold start: 30s average Warm start: < 30s Hot start: < 1s

### Interfaces

Digital Inputs	Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use
Digital Outputs	One digital output, open drain, 150 mA max current drain
Power Button	For power on and power off, can be disabled by OTA using @Track protocol
Function Button	Emergency alert or instant geo-fence
Mini USB Interface	For external power and configuration
MMCX RF Connector	For external GPS antenna
Indicator LED	GSM, GPS and battery status

### General Specifications

Dimensions	67.5mm*40mm*21mm
Weight	60g
Internal Battery	Li-Polymer 1300 mAh
Standby Time	Without reporting: 400 hours 5 minutes reporting: 130 hours 10 minutes reporting: 150 hours
Water Resistance	IPX5 compliant
Charging Voltage	5V DC
External Battery Voltage	3.5V to 4.5V DC
Operating Temperature	-20°C ~ +55°C

### Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status according to preset time schedules
Geo-fence	Support up to 5 internal geo-fence regions
Low Power Alarm	Alarm when internal battery is low
Power On Report	Report when the device is powered on
Power Off Report	Report when the device is powered off
Motion Detection	Motion alarm based on internal 3-axis accelerometer
SOS/Emergency Alarm	SOS alarm when function key is long pressed