

Specification:

GSM Specifications

Frequency	Quad band: 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 5 (0.8W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 8 GPRS mobile station class B
RMS Phase Error	5 deg
Max RF Output Power	GSM850/GSM900: 29.0±2 dBm DCS1800/PCS1900: 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

GNSS Specifications

GNSS Type	u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy	Autonomous: < 2.5m
TTF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

Interfaces

GSM Antenna	Internal only
GNSS Antenna	Internal only
LED Indicators	GSM, GNSS, PWR
Serial Port	Internal 8 pin connector for upgrading and debugging

General Specifications

Dimensions	118mm(L) x 69.5mm(W) x 26.8mm(H)
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Weight	140g (with batteries)
Batteries	CR123A lithium manganese dioxide battery pack, 1500 mAh, 9V
Standby Time	Standby current: < 10 uA SMS count: 1950 SMS SMS reporting standby: 1 SMS report per day: 1950 days TCP reporting standby: 1 report per day: 1800 days 4 reports per day: 510 days 5 minutes' reporting: 11 days
Waterproof	IPX7 compliant
Operating Temperature	-20°C ~ +60°C

Air Interface Protocol

Command Set	@Track protocol commands Simple SMS commands
Transmit Protocol	TCP, UDP, SMS
Working Mode	Power saving mode, for long standby time Continuous mode, for emergency tracking
Scheduled Timing Report	Report position and status at preset time intervals
Geo-fences	Support up to 5 internal geo-fence regions
Low Power Alarm	Alarm when battery is low
Motion Detection	Motion alarm trigger and optional change of working mode
Wakeup Report	Report when the device wakes up