

Specification:

GSM Specifications

Frequency	GSM: 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 (10 by default) GPRS mobile station class B

UMTS/ HSPA Specifications (GV55W)

Frequency	UMTS: 850/1900/2100 MHz UMTS: Class 3 (0.25W@850/1900/2100 MHz)
Transmission Data	HSDPA R5: Max 3.6 Mbps (DL) WCDMA R99: Max 384 kbps (DL)/Max 384 kbps (UL)

General Specifications

Item	Model	GV55	GV55W
Dimensions		63mm(L) x 50mm(W) x 21.8mm(H)	
Weight		50g	
Backup Battery		Li-Polymer 250 mAh	
Standby Time		Without reporting: 59 hours 5 minutes' reporting: 35 hours 10 minutes' reporting: 45 hours	Without reporting: 34 hours 5 minutes' reporting: 19 hours 10 minutes' reporting: 23 hours
Operating Voltage		8V to 32V DC	
Operating Temperature		-30°C ~ +80°C -40°C ~ +80°C for storage	-30°C ~ +70°C -40°C ~ +80°C for storage

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 (CEP) Autonomous: < 2.5m

TTFF (Open Sky) Cold start: 27s average
Warm start: 27s average
Hot start: 1s average

Interfaces

Digital Inputs	1 positive trigger input for ignition detection 1 negative trigger input for normal use
Digital Output	1 digital output, open drain, 150 mA max drive current
Latched Digital	1 digital output with internal latch circuit, open drain, 150 mA max drive current
Cellular Antenna	Internal only
GPS Antenna	Internal only
LED Indicators	GSM, GPS, PWR
Mini USB Interface	Used for upgrading and debugging

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Power Supply Monitoring	Alarm status reporting of the external power and backup battery of the device
Scheduled Report	Report position and status based on preset time intervals, distance, mileage or a combination of these settings
Geo-fences	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Tow Alarm	Alarm for tow event in ignition-off state
Speed Alarm	Flexible speed monitoring for unusual speed alarm
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
Crash Detection	Accident data collection for reconstruction and analysis
Special Alarm	Special alarm based on digital inputs
Remote Control	OTA control of digital outputs
Jamming Detection	Alarm based on jamming detection