

AVL-300 Specifications

GSM Specifications

Frequency Quad-Band: 850/900/1800/1900MHz
Compliant to GSM Phase 2/2+
-Class 4 (2W @ 850/900MHz)
-Class 1 (1W @ 1800/1900MHz)

GPRS GPRS multi-slot class 12
GPRS mobile station class B

RMS Phase Error 5 deg

Max Out RF Power 33.0dBm \pm 2dBm

Dynamic Input Range -15 ~ -102 dBm

Receiving Sensitivity Class II RBER2%(-102dBm)

Stability Of Frequency Greater than 2.5 ppm

Max Frequency Error \pm 0.1 ppm

GPS Specifications

GPS Chipset UBlox. All-In-One receiver. Sensitive Fast and Accurate

Sensitivity Autonomous: -148 dBm
Hot Start: -160 dBm
Tracking: -162 dBm

Position Accuracy Without Aid: 3.0 m 2D-RMS
DGPS: 2.5 m

TTF (Open Sky) Cold start 30s average
Warm start <30s
Hot start <1.2s

Interfaces

Digital Inputs Three digital inputs. One positive trigger for ignition detection. Two negative trigger inputs for panic button or other use.

Configurable Inputs One special input can be configured to negative trigger digital input or analog input (0-2.8V)

Analog Input One analog input (0-2.8V)

Digital Output	Two digital outputs, open drain, 150mA drive current max
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Latched Digital Outputs	One digital output with internal latch circuit, open drain, 150mA drive current max
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Two-Way Audio	Speaker and Microphone on 16 PIN connector
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GSM Antenna	Built in
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GPS Antenna	Built in or external (Optional, SMA RF connector)
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Serial Port	On MINI-USB for firmware upgrading and configuration
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General Specifications

Dimension	80mm * 49mm * 26mm
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Weight	89 g
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Backup Battery	Li-Polymer 250 mAh, 3.7V
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Standby Time	Without reporting: 22 to 28 Hours 5 minute reporting: 10 to 12 Hours 10 minute reporting: 12 to 15 Hours
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Operation Voltage	8 to 32V DC
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Operation Temperature	-30°C ~ +80°C(Without Battery) -40°C ~ +85°C for Storage(Without Battery)
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Power Management	Full power pathing; Internal battery is not used when external power is available
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Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
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Scheduled Timing Report	Position reports at pre-set time and distance intervals
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Geo-Fence	Geo-Fence alarm and parking alarm
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Low Power Alarm	Alarm when internal battery is almost exhausted
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Power On Report	Report when the device is powered on
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Tow Alarm	With built in motion sensor
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Antenna Disconnect Alarm	Alarm when the external GPS antenna is disconnected
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Special Alarm

Special alarm based on the digital/analog inputs

Remote Control

Control the digital outputs through air interface protocol