

Ct-AVL238

GPS Tracking for Fleet & Security

Specifications Sheet V0.2



Ct-AVL238 – Your Professional Tracking System

Rising fuel costs and car theft are major concerns of every driver or business who owns a fleet of vehicles, so being able to protect your assets and streamlining operating costs in a business are two of the top functional features when it comes to choosing an AVL tracking system. Whether it be for personal or commercial use, the Ct-AVL238 provides such a solution and much more like being able to actively immobilize your vehicle if you have found it to be stolen or cutting down on fuel costs by reducing engine idling.

The Ct-AVL238 is a professional tracking system that has integrated powerful chips like the SiRFstarIII for GPS positioning - providing high sensitivity of up to -186 dBW and SIEMENS tri-band wireless module that provides global coverage and the needed reliability. Ct-AVL238 is a highly flexible AVL tracking system with the ability to provide realtime reports via GPRS or SMS and for people who are looking for passive tracking capabilities, the Ct-AVL238 can also be used as a datalogger for manual download or the logs can be sent over GPRS and email at the end of each working day.

Versatile Tracking Applications

Vehicle Tracking – track and locate your valued assets in realtime with high accuracy in some of the most difficult environments, including urban canyons and under dense foliage. Ct-AVL238 utilizes the pinpoint accuracy of the SiRFstarIII chipset to acquire GPS positioning.

Fleet Management – manage your fleet of any size by increasing efficiency and reliability you provide to customers with some basic features like a virtual odometer and reporting of alarms in realtime for engine idling and the entry/exit of geofences. Ct-AVL238 doesn't provide two-way communications between the driver and the control center but the Ct-AVL238's personal security tracker – is highly suitable for such applications.

Stolen Vehicle Recovery (SVR) – track and immobilize your vehicle via GPRS or SMS in realtime, a panic alarm feature is part of the Ct-AVL238 system with the ability to set its own tracking interval once a panic button has been set off. Passive immobilization of the vehicle is also available through an optional add-on device.

Teenage Tracking – locate your teenager and receive alarms for overspeeding and set up to 10 geofences where you will be notified upon the entry/exit of the preset virtual fences you have configured. Forgotten keys can be recovered with a simple command to unlock the car door via a SMS command from a mobile phone.

Ct-AVL238 Specifications

GSM LED Status	
OFF	No operation
600ms ON / 600ms OFF	No SIM card present / No PIN entered / Network login processing
75ms ON / 3s OFF	The mobile is registered to the GSM network
75ms ON / 75ms OFF / 75ms ON / 3 s OFF	GPRS PDP context activated
500ms ON / 25 ms OFF	Packet switched data transfer is in progress
ON	Data call
GPS LED Status	
500ms ON / 500ms OFF	No GPS signal received
ON	GPS ready
OFF	No GPS data from hardware
GPRS LED Status	
200ms ON / 200ms OFF	GPRS transmission in process
OFF	GPRS disconnected
ON	GPRS connected
USB LED Status	
ON	USB cable connected
OFF	USB cable disconnected
Physical Characteristics	
Unit Size	95L * 89W * 35H (mm)
Weight	300g
Cover	High Grade PC + ABS
Interface	4 DI, 2 DO, 1 Mini USB port, 4 LED lights for GSM, GPS, GPRS and USB
Case Environmental Characteristics	
Operational Temperature	-10°C to +70°C (board temperature)
Storage Temperature	-25°C to +85°C

Electrical Characteristics	
SIEMENS GSM module	900/1800/1900(SIEMENS MC55) or 850/1800/1900(SIEMENS MC56)
Input Voltage	+12V ~ +24V DC
Power Consumption	Standby: 12 Volt – 20mA ; 12 Volt – 30mA (Peak) Transmitting: 12 Volt – 100mA ; 12 Volt – 130mA (Peak)
Backup Battery	Rechargeable Li Battery at 1500mA
Backup Battery Life	Approx. 6 to 8 hours with GPS and Communication ONLINE Depends on set tracking interval, the estimated battery age, and time last charged
Memory Backup	Flash Memory 2MB
Outputs	2 negative outputs (500mA max per output)
Inputs	1 ACC Input, 1 Panic Input (active low to activate input) 2 General Inputs (active low / high to activate input)
SiRFstarII GPS Specifications	
Frequency	L1, 1575.42 MHz
Tracking Sensitivity	-159 dBm or -186 dBW
Protocol	NMEA0183 Ver3.0
Channels	Up to 20
Position	10 meters
Hot Start	< 1 sec average
Warm Start	< 35 sec average
Cold Start	< 42 sec average

VERIFICATION OF COMPLIANCE

Test Report Number : EJ/2009/90004

Tested Model(s) : Ct-AVL238

Serial Model Type(s) : None

Product Name : Vehicle Tracking System

Applicant : Connectec Electronics Co.,Ltd.

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Date of Issue : Sep. 23, 2009

Applicable Standards : EN 60950-1:2006

Conclusion

The submitted apparatus comply with the requirements of the above standard(s) and the following directive.

Low Voltage Directive 2006/95/EC

Authorized Signatory:



SGS TAIWAN LTD.
Charles Chen



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