

# VITA-350P

**Automatic Vehicle Location Device  
with GPS, GPRS, DI/O, RS232, LVDS**



## Features

- 50-channel engine for GPS
- Tri-band GSM/GPRS 900/1800/1900 MHz
- IO expansion for RS232, USB client and DIO
- Built-in watchdog timer & Real-time clock (RTC)
- Built-in data logger capability with flash memory
- MRM configuration utility
- Remote parameter configuration via GPRS
- Design compatible with TREK-305R
- ARM/XScale + WinCE.NET for powerful and efficient development

## Introduction

Advantech's VITA-350P, provides in-vehicle data solutions over GSM/GPRS networks for fleet management and transportation applications. A 18 channel tracking engine for GPS module with 1 x RS-232 and 4 x digital I/O ports are also offered for advanced tracking and alarms. ARM/XScale with WinCE.NET solution make VITA is not only the Machine to Machine (M2M) terminal but the economical & compact fleet management device. RISC CPU with WinCE could ensure powerful computing and efficient design.

### Turn-key Solution

Industrial hardware design with intelligent software capabilities makes the VITA-350P a reliable fleet management solution. The VITA-350P is a compact vehicle platform that combines GPS + GPRS modules and versatile data input interfaces. The hardware is optimized with Windows CE in mind, making Advantech's VITA-350P an ideal platform for many professional fleet management and telemetry applications.

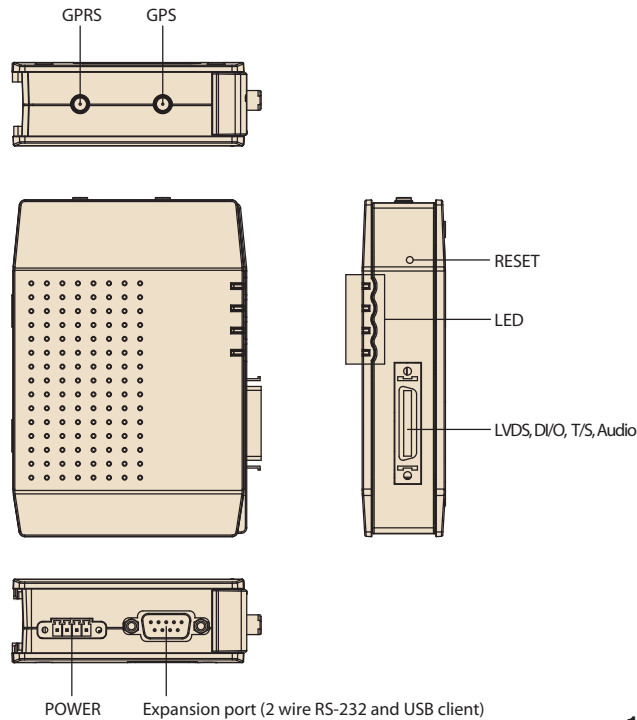
### Embedded SDK for Easy Configuration

Advantech also provides an SDK (software development kit) package, including APIs, to back up the VITA-350P, making the system easy to integrate and manage.

## Specifications

General Specifications	Dimensions (W x D x H)	121.3 x 83.01 x 30 mm (47.76" x 32.68" x 11.81")	
	Weight	170 g (0.375 lb)	
	Case Material	Plastic	
	Power Input Voltage	12, 24Vdc (power regulation: ISO7637)	
	Power Consumption	1.92W	
	Operating Temperature	-10 ~ 70° C	
	Storage Temperature	-40 ~ 85°	
GPS Specifications	RF receiver type	50 Channels GPS L1 frequency, C/A Code GALILEO Open Service L1 frequency	
	Acquisition	Cold Start (Autonomous)	29 s
		Warm Start (Autonomous)	29 s
		Hot Start (Autonomous)	<1 s
		Aided Starts	<1 s
	Sensitivity	Tracking & Navigation	-160 dBm
		Acquisition	-160 dBm
Cold Start (Autonomous)		-145 dBm	
protocol	NMEA	Input/output, ASCII, 0183, 2.3 (compatible to 3.0)	
	UBX	Input/output, binary, u-blox proprietary	
GSM/GPRS Specifications of Siemens MC55 Module	Tri-band MC55	EGSM900 / GSM1800/1900	
	GPRS Multi-slot	Class 10	
	GPRS Mobile Station	Class B	
	Download: Max.	85.6 Kbps	
	Uplink: Max.	42.8 Kbps	
	Coding scheme	CS1-4	
	Internet Service	TCP, UDP, HTTP, FTP, SMTP, POP3	

## Dimensions



External I/O		1 x Expansion port: 2-wire RS-232 with USB client 1 x Reset Button 1 x Phoenix Type Power Input Connector 1 x Phoenix Type Digital I/O Connector 1 x 36 pin connector: LVDS 4 x programmable DIO (default: 4 DO)
LED Indicators		Power (Red), GPS (Blue), GPRS (Green), Status (Orange)
Certification	FCC	Part 15B, Part 24E FCC ID - M82VITA-350
	CE EMC	EN55022/ 55024
	Power regulator	ISO7637 1/2
	E-mark	ECER10
	NCC	NCC Number: CCAB07DG0290T1
	R & TTE	2004/104/EC
	UL/CUL	UL 60950-1
	CE Safety	IEC/EN 60950-1
	Vibration	MIL-STD-810F 514.5C-3

## Ordering Information

Part Number	Description
VITA-350P-GA0E	AVL module with 1 x GPS, 1 x GPRS, 1 x RS-232, USB client, 1 x LVDS & 4 x programmable Digital I/Os.
TREK-305R-FLA0E	5.7" Touch panel for fleet management (VITA is design compatible with TREK)

## Packing List

Description	Quantity
VITA-350P Module	1
GPS Antenna	1
GPRS Antenna	1
Wall/DIN Rail Mounting Kit	1
CD-ROM (User Manual; Utility)	1
4-pin Phoenix jack power cable	1