

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.

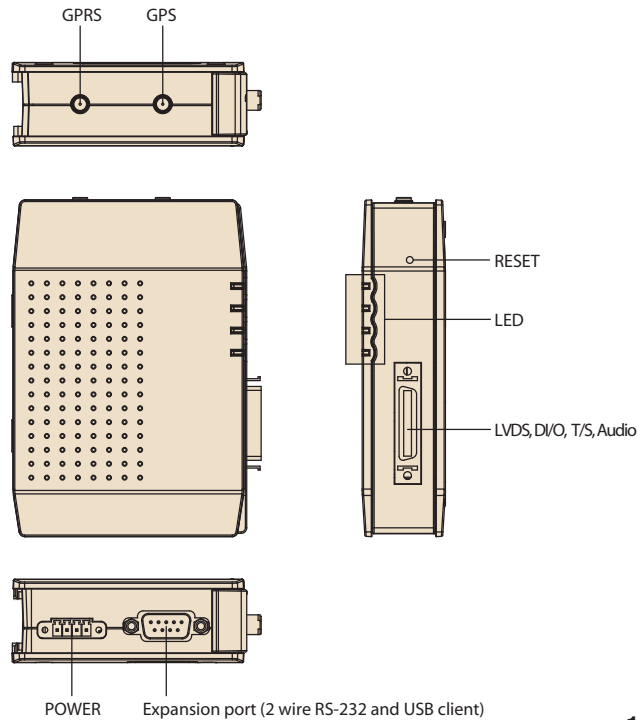
Embedded SDK for Easy Configuration

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



121.3 (W) x 83.01 (D) x 30 (H)

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