

VITA-350P

**Compact Mobile Data Terminal
with GPS, GPRS, DI/O, RS-232, LVDS**



Features

- 50-channel engine for GPS
- Tri-band GSM/GPRS 900/1800/1900 MHz
- I/O expansion for RS-232, USB client and DIO
- Built-in watchdog timer & real-time clock (RTC)
- Built-in data logger capability with flash memory
- MRM configuration utility
- Design compatible with TREK-305R display unit
- 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. VITA-350P has a 50-channel engine GPS module with 1 x RS-232 and 4 x digital I/O ports for advanced tracking and alarms. The ARM/XScale processor with the WinCE.NET solution makes VITA not only a Machine-to-Machine (M2M) terminal but also an economical and compact fleet management device.

Turnkey Solution

VITA-350P's industrial design with intelligent software capabilities make it a reliable and robust 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 the ideal turnkey solution for many professional fleet management and telemetry applications.

Embedded SDK for Easy Configuration

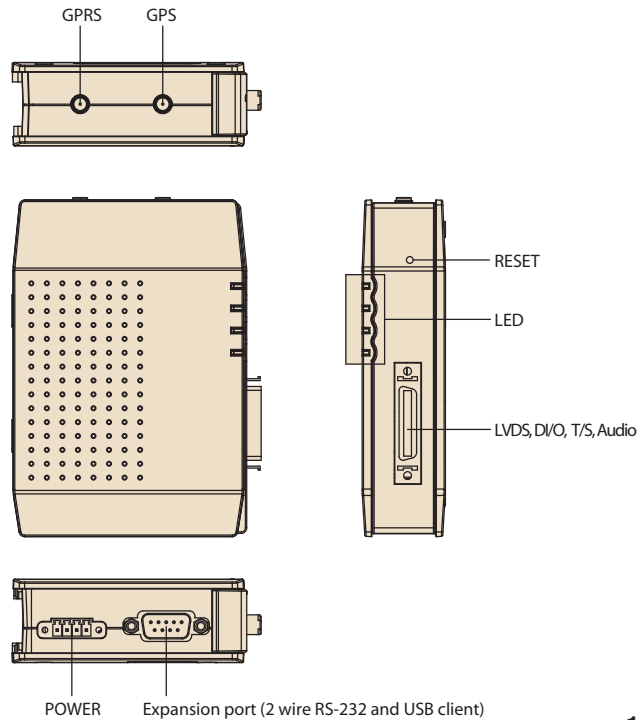
Advantech also provides an SDK (Software Development Kit) package, including APIs, making the system easy to integrate, configure and manage.

Specifications

Esis Pty Ltd
Ph 02 9481 7420
Fax 02 9481 7267
www.esis.com.au

Kernel	OS	Win CE 4.2 Core	
	CPU	PXA255 200 (default)/400 MHz	
	SDRAM	64 MB SDRAM	
	Storage	128 (default)/512 MB on board flash, SD slot built-in (optional)	
	Watchdog	PXA255 Built-in	
	RTC	Yes (Built-in)	
	Expansion Port	1 x RS-232, 1 x USB client	
	Display Port	LVDS, 4x DI/O, T/S, Audio	
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, 24 V _{DC} (power regulation: ISO7637)	
	Power Consumption	1.92 W	
	Operating Temperature	-10 ~ 70° C (-30 ~ 80° C by project base)	
	Storage Temperature	-40 ~ 85° C	
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)

Specifications

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 36-pin connector: Includes T/S, LVDS, Audio, 4 programmable DI/O (Default: 4D/O)
LED Indicators		Power (Red), GPS (Blue), GPRS (Green), Status (Orange)
Certifications	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	MDT 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" display solution for vehicle application (VITA-350P is design compatible with TREK-305R)

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

Compatible with TREK-305R



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