P37B

3.7" Ultra Rugged PDA with Marvell PXA 270 Processor

Features

- Marvell PXA 270 624 MHz core
- 3.7" VGA TFT LCD transflective technology
- IP67 rating guarantees total protection against dirt, dust and water
- Certified by MIL-STD-810F and MIL-STD-461E
- Standard 5-way controller and 4 function keys for one-hand operation
- High capacity Li-ion battery provides 6 hours of continuous operation
- Field navigation application with HSDPA (3.5G), 802.11b/g, Bluetooth and GPS
- Supports Windows® CE5.0 and Windows Mobile6.1 systems
- Handheld, vehicle mounting solution for mobile application

Introduction

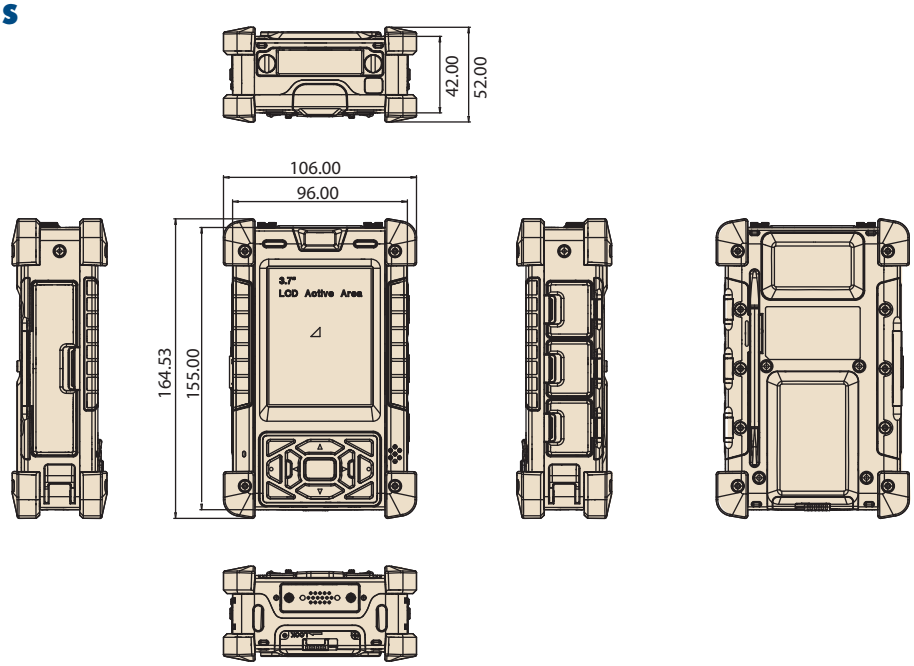
The P37B is an ultra rugged portable computer featuring a 3.7" transflective VGA TFT LCD display and Marvell PXA 270 624 MHz processor. With GPS, HSDPA (3.5G), Wi-Fi and built-in Bluetooth, P37B provides a fully-functional communication device for any outdoor application. Certified by standard military grade MIL-STD-810F and MIL-STD-461E, P37B is constructed with an IP67 rating guaranteeing total protection against dirt, dust and water. Driven by a high capacity battery, P37B handles a 5-foot drop, and operates in an extreme range of operating temperatures, providing mobility in any harsh environment. Advantech's P37B is a strong device for reliable mobile communications in any environment.

Specifications

Processor	CPU	Intel PXA270 624MHz	
Memory		256 MB SDRAM on board	
Storage		1 GB Flash ROM on board	
Audio System		AC-97, built-in Internal microphone and one speaker	
Display	Size/ Type	3.7" transflective TFT LCD,	
	Max. Resolution	VGA 480 x 640 /QVGA 240 x 320	
	Brightness (cd/m²)	100 nits LED back light	
Touch Panel		4-wire resistive touch panel	
Application Buttons		1 x power on/suspend button 1 x software reset switch Navigation key and four function keys	1 x HW reset key located right side door 1 x button for backlight on/off (using power on/ suspend button)
I/O Port		2 x USB type A connectors, USB1.1 host 1 x USB mini type B connector, USB1.1 slave 1 x RS-232 (full), 1 x RS-232/422/485 (optional) 1 x RJ-45 for 10/100M ethernet (USB type)	1 x CF slot 1 x stereo headphone jack 1 x microphone jack 1 x DC-In connector
Communicatiion	Standard	802.11b/g WLAN module build in Bluetooth class 2, v1.2 built-in with integral antenna	
	Factory Options (Optional)	GPS & GALILEO receiver with antenna built-in GSM/GPRS/WCDMA/HSDPA (3.5G) internal module (for data tranmission only)	
Dimensions & Weight		155 x 96 x 42 mm, 650 g	
Power	Battery	Rechargeable Li-ion smart battery, 7.4 V, 1880 mAh, 2S1P, 59 x 38 x 25 mm	
	Power Adapter	Universal AC 100 V ~ 240 V, 47 ~ 63 Hz input, 12 V, 3.5 A output	
Environment	Operating Temperature	-20° C ~ +60° C	
	Storage Temperature	-40° C ~ + 70° C	
	Operating Humidity	5%~95%	
OS		Windows CE 5.0 Windows Mobile 6.1	
Rugged Certificate		IP67 5 Foot drop to concrete	MIL-STD-461E MIL-STD-810F
Certifications		CE, FCC, CCC	
Accessries		Military Connector Hand Strap	Vehicle Mount Cradle

All product specifications are subject to change without notice
Last updated : 17-Mar-2011

Dimensions



I/O

1. Function buttons
2. Suspend button
3. Navigation keys
4. FN button
5 Enter keys
6. CF slot
7. Docking/cradle connector
8. Battery pack latch

9. RS 232
10. USB type A (USB 1.1 Host)
11. RS 232 (RS422/RS485)
12. RJ-45 Port & SW reset button
13. Handphone, microphone & micro SD slot
14. DC in & min USB type (USB 1.1 slave)

Ordering Information

Part Number	Description
P37B-K2BAF5-5E00	PDA 3.7SHP VGA PXA270 624 MHz 256 M BT Wlg GPS F1GB CE5.0 ENG
P37B-K2BEF5-7E00	PDA 3.7SHP VGA PXA270 624 MHz 256 M BT Wlg GPS HSDPA F1GB, Mobile 6.1 ENG
P37B-K2BAF5-5E01	PDA 3.7SHP VGA PXA270 624 MHz 256 M BT Wlg GPS F1GB CE5.0 ENG (with Advantech logo)
P37B-K2BAF5-7E00	PDA 3.7SHP VGA PXA270 624 MHz 256 M BT Wlg GPS F1GB Mobile 6.1

Accessories

Part Number	Description
P37B-91-P37BB-C01	Accessory P37B 4IN1 battery charger
P37B-91-P37BC-R02	Accessory P37B cradle
P37B-91-P37BM-C01	Accessory P37B converter box