

# P37B



## 3.7" Ultra Rugged PDA with Marvell PXA 270 Processor

Preliminary



CE FCC

### Features

- Marvell PXA 270 624 MHz core
- 3.7" VGA TFT LCD transfective 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

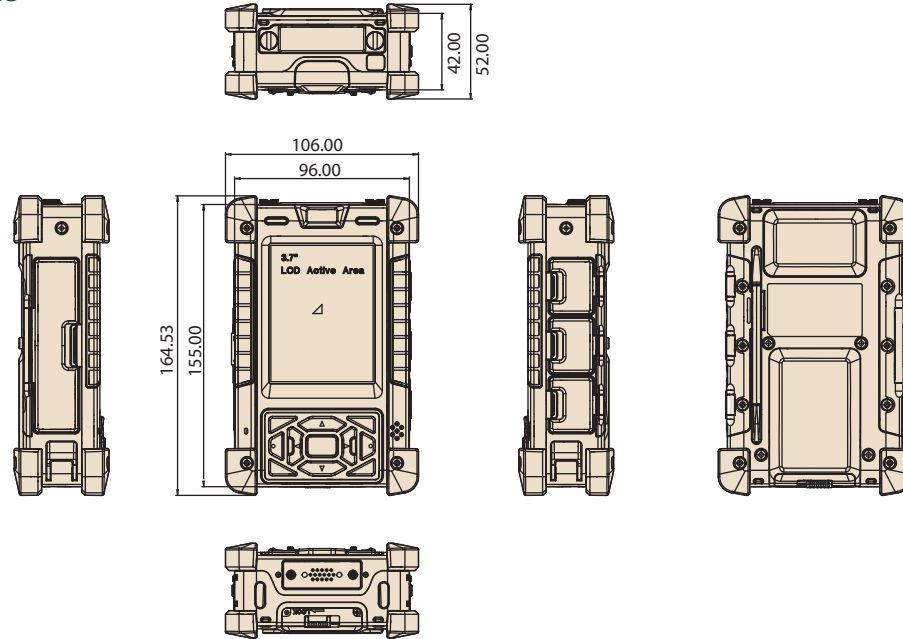
### Introduction

The P37B is an ultra rugged portable computer featuring a 3.7" transfective 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" transfective TFT LCD,
	Max. Resolution	VGA 480 x 640 /QVGA 240 x 320
	Brightness (cd/m <sup>2</sup> )	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
I/O Port		1 x HW reset key located right side door
		1 x button for backlight on/off (using power on/ suspend button)
		2 x USB type A connectors, USB1.1 host
Communication	Standard	1 x USB mini type B connector, USB1.1 slave
	Factory Options (Optional)	1 x RS-232 (full),
		1 x RS-232/422/485 (optional)
	1 x RJ-45 for 10/100M ethernet (USB type)	
Dimensions & Weight		1 x CF slot
		1 x stereo headphone jack
Power	Battery	1 x microphone jack
	Power Adapter	1 x DC-In connector
Environment	Operating Temperature	802.11b/g WLAN module build in
	Storage Temperature	Bluetooth class 2, v1.2 built-in with integral antenna
	Operating Humidity	GPS & GALILEO receiver with antenna built-in
OS		GSM/GPRS/WCDMA/HSDPA (3.5G) internal module (for data transmission only)
		155 x 96 x 42 mm, 650 g
Rugged Certificate	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
Certifications	Operating Temperature	-20° C ~ +60° C
	Storage Temperature	-40° C ~ + 70° C
	Operating Humidity	5%~95%
Accessories	OS	Windows CE 5.0
		Windows Mobile 6.1
Military Connector	IP67	MIL-STD-461E
	5 Foot drop to concrete	MIL-STD-810F
Hand Strap	CE, FCC, CCC	
		Military Connector
		Vehicle Mount
		Cradle

## 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