

# PWS-440

## 3.7" Ultra Rugged PDA



### Features

- Marvell PXA310 806MHz; Supports Windows CE6.0 and Windows Embedded Handheld 6.5
- 3.7" VGA TFT LCD transfective technology
- IP67 rating guarantees total protection against dirt, dust and water
- Certified by MIL-STD-810G and MIL-STD-461F
- 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 (3.5 G), 802.11b/g, Bluetooth and GPS



### Introduction

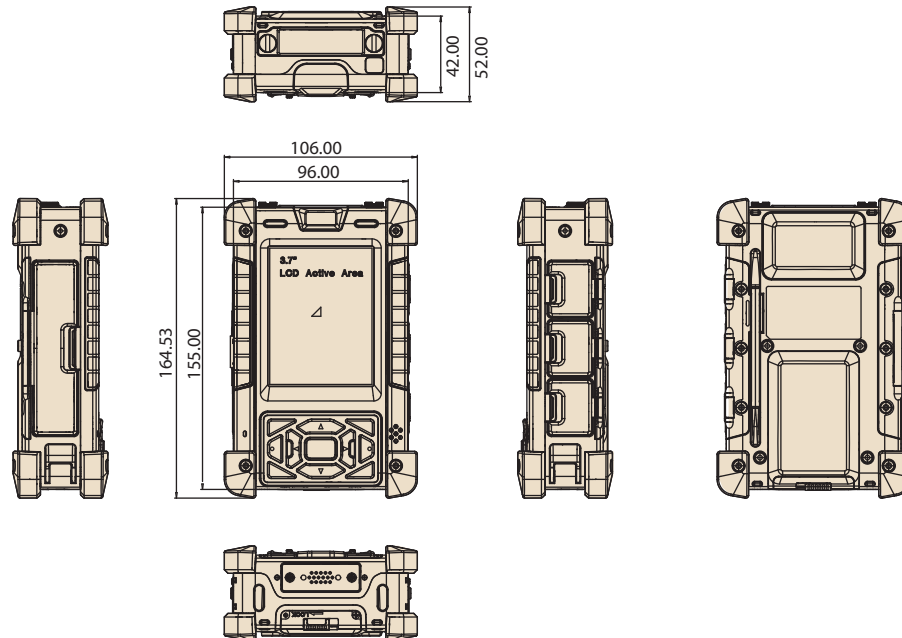
The PWS-440 is an ultra rugged portable computer featuring a 3.7" transfective VGA TFT LCD display and Marvell PXA310 806MHz processor. With GPS, HSDPA (3.5G), Wi-Fi and built-in Bluetooth, PWS-440 provides a fully-functional communication device for any outdoor application. Certified to meet standard military grade MIL-STD-810G and MIL-STD-461F, PWS-440 is constructed with an IP67 rating guaranteeing total protection against dirt, dust and water. Driven by a high capacity battery, PWS-440 handles a 5-foot drop, and operates in an extreme range of temperatures, providing mobility in any harsh environment. Advantech's PWS-440 is a strong device for reliable mobile communications in any environment.

### Specifications

Processor	CPU	Marvell PXA310 806 MHz
OS		Windows CE 6.0 and Windows Embedded Handheld 6.5
Memory		256 MB DDR Mobile RAM on board (default); Up to 512MB DDR (by project-based)
Storage		1 GB NAND Flash on board
Audio System		Build-in Internal microphone and one speaker 0.5W
Display	Size/ Type	3.7" transfective TFT LCD
	Max. Resolution	VGA 480 x 640
	Brightness (cd/m <sup>2</sup> )	320 cd/m <sup>2</sup> LED back light
Touch Panel		4-wire resistive touch panel
Application Buttons		1 x power on/suspend button
		Navigation key and four function keys
I/O Port		2 x USB type A connectors, USB1.1 host
		1 x USB mini type B connector, USB1.1 Client
		1 x RS-232
		1x RS-232 (default) 422/485 (By project-based)
Communication	WLAN	802.11b/g WLAN module build in
	Bluetooth	Bluetooth class 2, v2.1 built-in with integral antenna
	GPS	SiRF Star IV high performance GPS chipset
	WWAN	Cinterion PH8 HSPA+ WWAN module with high performance external antenna (optional)
Power	Battery	Rechargeable Li-ion smart battery, 7.4 V, 1880 mAh, 2S1P
	DC input	12V ± 5%
Environment	Operating Temperature	-20° C ~ 60° C
	Storage Temperature	-40° C ~ 70° C
	Operating Humidity	5% ~ 95%
Rugged Certification		IP67
		5 feet drop to concrete
Certifications		MIL-STD-461F
		MIL-STD-810G
Dimensions & Weight		CE, FCC, CCC
		155 x 96 x 42 mm, 650 g

## Dimensions

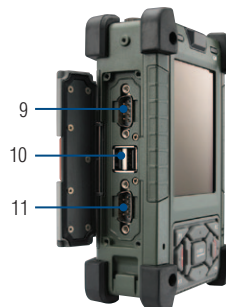
Unit: mm



## I/O Connectors



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



- 9. RS 232
- 10. USB type A (USB 1.1 Host)
- 11. RS 232 (RS422/RS485)



- 12. RJ-45 Port
- 13. Handphone, microphone & micro SD slot
- 14. DC in & min USB type (USB 1.1 slave)

## Ordering Information

Part Number	Description
PWS-440-6E000E	PWS-440 with WLAN/BT/GPS/WIN CE6.0
PWS-440-6E003E	PWS-440 with WLAN/BT/GPS/3.5G/WIN CE6.0
PWS-440-6M000E	PWS-440 with WLAN/BT/GPS/WIN Embedded Handheld 6.5
PWS-440-6M003E	PWS-440 with WLAN/BT/GPS/3.5G/WIN Embedded Handheld 6.5

Note: The package are include PWS-440 device, power adapter, and hanstrap

## Accessories

Part Number	Description
P37B-91-P37BB-C01	Accessory P37B 4IN1 battery charger
P37B-91-P37BC-R02	Accessory P37B cradle
P37B-93-P37B4-001	Accessory P37B battery pack 2S1P 1880MAH
1757003914	Adaptor AC-DC 12V/4A 100-240V