

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

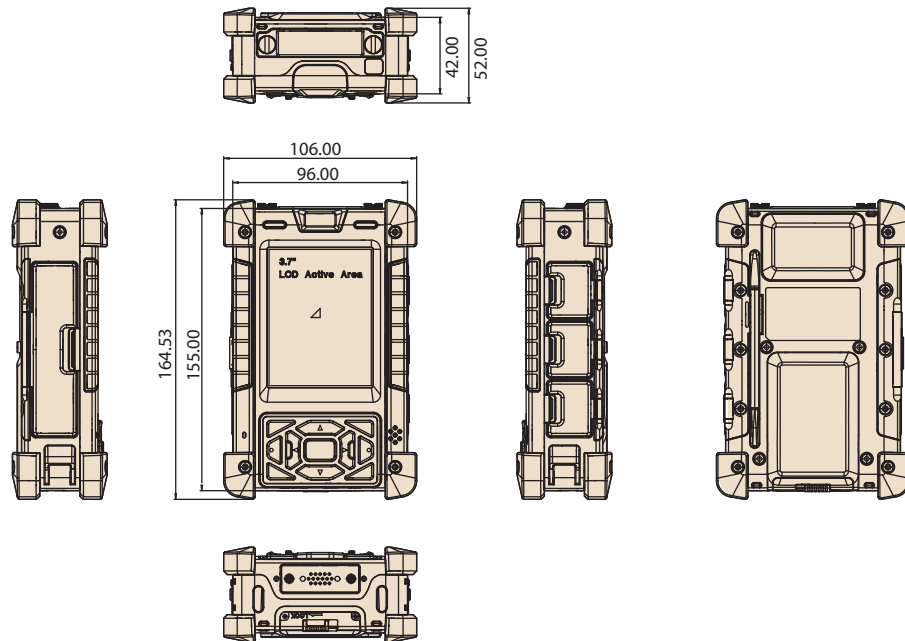
The PWS-440 is an ultra rugged portable computer featuring a 3.7" transfective VGA TFT LCD display and Marvell PXA310 806MHz processor. With GPS, HSDPA (3.5G), Wi-Fi and built-in Bluetooth, PWS-440 provides a fully-functional communication device for any outdoor application. Certified to meet standard 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 ²)	320 cd/m ² LED back light	
Touch Panel		4-wire resistive touch panel	
Application Buttons		1 x power on/suspend button	1 x HW reset key located right side door
		Navigation key and four function keys	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 RJ-45 for 10/100M Ethernet
		1 x USB mini type B connector, USB1.1 Client	1 x stereo headphone jack
		1 x RS-232	1 x microphone jack
		1x RS-232 (default) 422/485 (By project-based)	1 x DC-In connector
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	MIL-STD-461F
		5 feet drop to concrete	MIL-STD-810G
Certifications		CE, FCC, CCC	
Dimensions & Weight		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