PWS-440

Features

- Marvell PXA310 806MHz; Supports Windows CE6.0 and Windows Embedded Handheld 6.5
- 3.7" VGA TFT LCD transflective 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
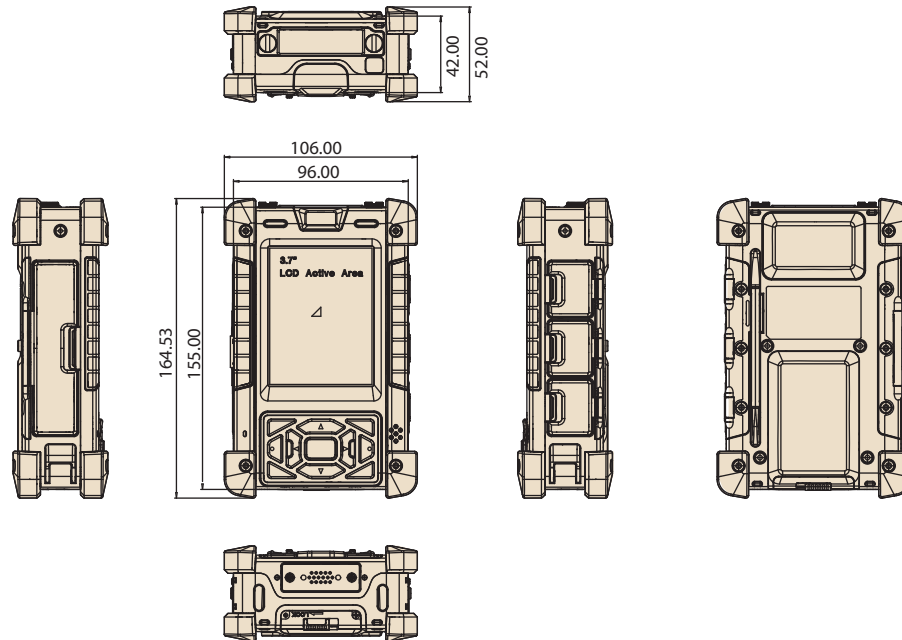
Introduction

The PWS-440 is an ultra rugged portable computer featuring a 3.7" transflective 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

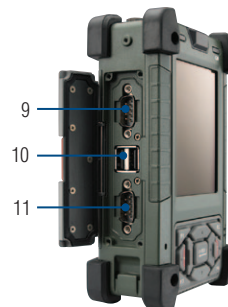|			
Processor	CPU	Marvell PXA310 806 MHz	
OS		Windows CE 6.0 and Windows Embedded Handheld 6.5	
Memory		256 MB DDR Mobile RAM on board (default); Up to 512MB DDR (by project-based)	
Storage		1 GB NAND Flash on board	
Audio System		Build-in Internal microphone and one speaker 0.5W	
Display	Size/ Type	3.7" transflective TFT LCD	
	Max. Resolution	VGA 480 x 640	
	Brightness (cd/m²)	320 cd/m² LED back light	
Touch Panel		4-wire resistive touch panel	
Application Buttons		1 x power on/suspend button 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 Client 1 x RS-232 1x RS-232 (default) 422/485 (By project-based)	1 x RJ-45 for 10/100M Ethernet 1 x stereo headphone jack 1 x microphone jack 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 5 feet drop to concrete	MIL-STD-461F 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