PWS-430

3.5" Rugged Handheld with Marvell PXA310 Processor

Preliminary

Features

- Marvell PXA310 806MHz
- 3.5" QVGA TFT LCD
- IP65 rating guarantees total protection against dirt, dust and water
- Certified MIL-STD-810F
- 37 keys QWERTY including 5 side keys and numeric keys
- Field navigation application with HSDPA (3.5G), 802.11b/g, Bluetooth, RFID/HF/UHF, barcode and GPS
- Supports Windows® CE6.0
- Handheld for mobile application
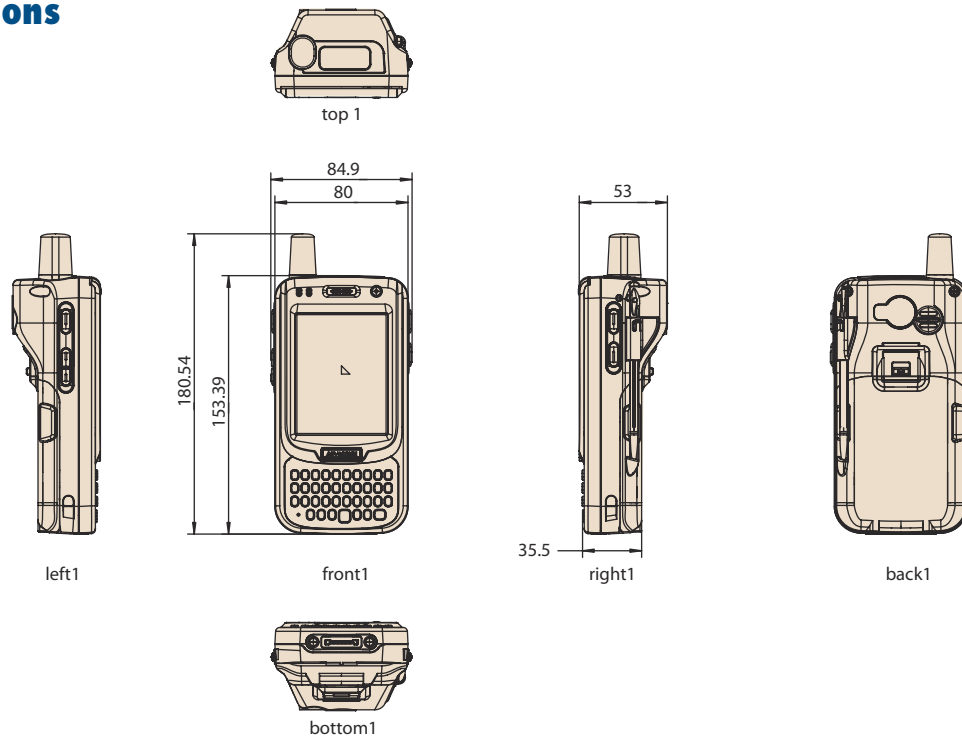
Microsoft® WindowsCE

CE FCC

Introduction

The PWS-430 is a rugged portable computer featuring a 3.5" transflective QVGA TFT LCD display, and Marvell PXA 310 806 MHz processor. With HSDPA (3.5 G), 802.11 b/g, Bluetooth, RFID/HF/UHF, barcode and GPS, PWS-430 provides a fully-functional communication device for any outdoor applications. Certified by standard military grade MIL-STD-810F, PWS-430 is constructed with an IP65 rating guaranteeing protection against dirt, dust and water. Driven by a high capacity battery, PWS-430 withstands a 5-foot drop, and can operate in an extreme range of operating temperatures, providing mobility in any harsh environment. Advantech's PWS-430 is a strong and rugged device for reliable mobile communications in any environment.

Specifications

Processor	CPU	Marvell PXA310 806 MHz
Memory		256MB DDR RAM on board
Storage		1GB Flash ROM on board
Audio System		AC-97, built-in Internal microphone and one speaker
Display	Size/ Type	3.5" transflective TFT LCD
	Max. Resolution	QVGA resolution (320 x 240)
	Brightness (cd/m²)	100 nits LED back light
Touch Panel		4-wire resistive touch panel
Application Buttons		37 QWERTY keys including function and numeric keys one side buttons for Barcode scan one side buttons for RFID trigger
I/O Port		1 x SIM Card slot 1 x SAM Card slot/1 x Micro SD slot 1 x cradle connector (USB host x 1, USB slave x 1, RS232 x 1 (full), DC)
Communicatiion and Device	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 (for data tranmission only) WWAN 3.5 G module built-in/Barcode 1D/5 Mega CCD (Support 2D barcode) HF RFID reader UHF RFID reader
Dimensions & Weight		155 x 80 x 35 mm, 500 g
Power	Battery	Rechargeable Li-ion smart battery, 3.7V,3600mAh
	Power Adapter	Universal AC 100 V ~ 240 V, 47 ~ 63 Hz input, 12 V, 2 A output
Environment	Operating Temperature	-20 ~ +50° C
	Storage Temperature	-40 ~ +70° C
	Operating Humidity	5%~95%
OS		Windows CE.60
Rugged Certification		IP65 5 Feet drop to concrete MIL-STD-810F
Certifications		CE, FCC, CCC
Accessories		Cradle USB Convertor cable power charger cable

Dimensions

Unit: mm [inch]

top 1

84.9
80
180.54
153.39

53
35.5

left1   front1   right1   back1

bottom1

I/O

1. SCAN/trigger keys
2. 37 QWERTY keys
3. Charge connector
4. FN button
5. 3.5 G Antenna
6. Barcode
7. 5 Mega CCD
8. Battery Catch
9. SIM/SAM/MicroSD Slot (inside)
10. Stylus