

# PWS-870

**Preliminary**



## 10.1" Fully Rugged Tablet PC with 4<sup>th</sup> Generation Intel® Haswell Core™ i Processor

### Features

- MIL-STD-810G, 4ft. Drop and IP65 compliant
- 10.1" HD High brightness Multi Touch with Gorilla Glass Panel + Digitizer
- 4<sup>th</sup> Generation Intel® Core™ i Processor; supports Windows 8 Operating System
- Build-in 4G LTE, WLAN (802.11 a/b/g/n/ac), BT4.0, and GPS with Beidou/Glonass features
- Hot swap battery, for up to 11 hours of operation (\*1)
- Built-in dual cameras, 1D/2D, barcode scanner, and NFC RFID
- Rich peripherals with Vehicle docking, Desk docking, and Extension module support



PTCRB

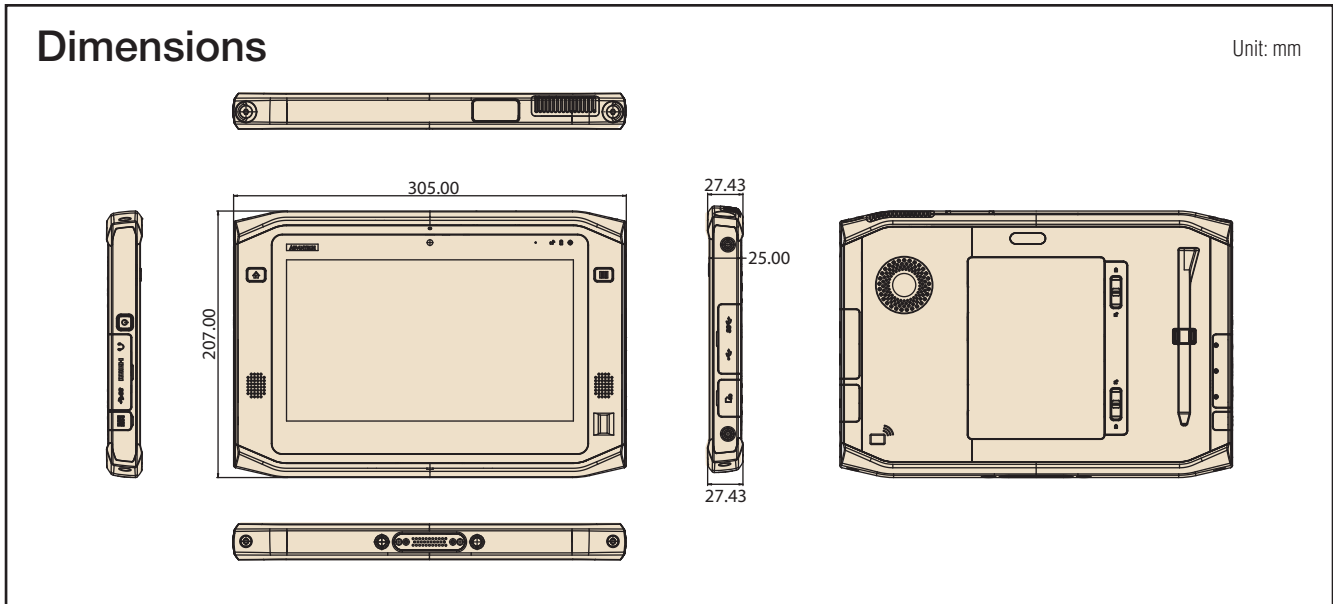
## Introduction

The PWS-870 is a fully rugged mobile tablet PC featuring a 10.1" HD resolution capacitive Multi Touch panel, an Intel Haswell Core i processor, mSATA SATA3 SSD storage, USB 3.0 and HDMI IO ports. For the communication feature, it comes with 802.11 a/b/g/n/ac WiFi, Bluetooth, GPS, and 4G LTE. One of the most important unique design feature is its built-in data collection features: 2M/5M dual cameras, 1D/2D barcode reader, and NFC RFID reader. To mobile field workers, hot-swappable external battery for long-lasting support allows the system to operate for up to 11 hours at a time. The fully-rugged design (MIL-STD-810G, IP65 dust & water resistant and 4-foot drop) allows PWS-870 to sustain in harsh environment. With sunlight readable display, PWS-870 is a perfect device for outdoor work.

## Specifications

Motherboard	CPU & Chipset	Intel® Core™ i3 Processor 1.7 GHz 4010U (Default) Intel® Core™ i5 Processor 1.9 GHz 4300U with Turbo Boost to 2.9GHz (By project) Intel® Core™ i7 vPro™ Processor 1.7 GHz 4650U with Turbo Boost to 3.3 GHz (Default)	
	Memory	SO-DIMM DDR3L 1600 MHz up to 8 GB	
	Storage	Support mSATA SATAIII SSD 32 GB - 256 GB (*2)	
Display & Touchscreen	Display	10.1" HD (1366x768) Low reflection LED Backlight LCD (400 nits default; 800 nits by project)	
	Touch Panel	Capacitive multi touch Sunlight readable feature Display with Corning® Gorilla® Glass Gen2 Digitizer (By project)	
	Sensor	Ambient light, Accelerometer (G-Sensor), E-compass, Gyroscope Sensor - Screen Rotation: 0°, 90°, 270°	
System	Wireless Communication	Default WIFI 802.11 a/b/g/n/ac Default Bluetooth V4.0 (Class2) + EDR; (BT4.0 Class1 by project) Optional integrated 4G LTE mobile broadband	Optional integrated 3G WCDMA Optional integrated CDMA2000 Optional dedicated GPS, Beidou, and Glonass
	Camera	Front Camera: 2M pixel CMOS sensor; supports video streaming Rear Camera: 5M pixel CMOS sensor; with LED flash light and auto focus control	
	Data Collection	Optional built-in 1D barcode scanner Optional built-in 2D barcode scanner Optional built-in NFC RFID reader	
	Security	1. Optional fingerprint scanner 2. TPM 1.2 3. Kensington cable lock slot	
	Audio Output	Integrated speakers (2W) Integrated microphone	
	Input	Capacitive multi touch Optional Digitizer screen and Digitizer pen Programmable button x2	Capacitive pen On-screen QWERTY keyboard
	LED	Power LED Battery LED RFID LED	
	I/O	USB 3.0 x2; USB 2.0 x1 HDMI 1.4 x1 SD card slot x1 (SDXC/UHS1/UHS2) Audio combo jack (Line-in/Line-out) x1	DC-in x1 Docking port x1 (32PIN) (USB3.0, USB2.0, PCIE Gen2, Display port) SIM slot x1
	Battery	Main battery: 4S1P 14.4V 2730mAh Hot-Swappable external battery: 4S2P 14.4V 4200mAh	With Hot-Swappable external battery up to 11hrs
	Power Input	19V +/- 5%	
OS	Windows Embedded 8.1 Industry Pro (Default), Windows Embedded 8 Standard (Default), Windows 7 Pro 64bit (By project), Linux Ubuntu (By project)		

# PWS-870



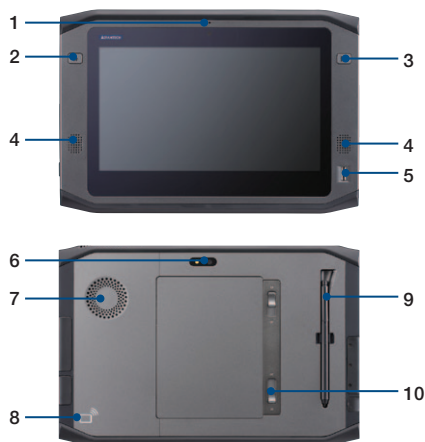
## Specifications Cont.

Environment	Temperatue & Humidity	Operating Temperature -10 to 50° C; -20 to 50° C (By project) Storage Temperature -20 to +60° C Operating Humidity 5% ~ 95% @ 40° C	
	IP Rating	IP65	
	Vibration	MIL-STD-810G; EN60721-3-5 class 5M3 compliant	
	Drop	4 feet drop onto Plywood, MIL-STD-810G 516.5 Procedure VI compliant	
Certifications	EMC/RF	CE/FCC/CCC/PTCRB/SAR	
	Safety	UL/CE/CB/CCC	
Peripheral	Peripheral <sup>(3)</sup>	<ul style="list-style-type: none"> <li>Digitizer pen (For Digitizer solution)</li> <li>Universal Cover 6-in-1 (Case, Handle, Stand, Hand Strap, Shoulder belt, and Hostler)</li> <li>Extension modules for MSR, UHF RFID, extra IO ports solution (By Project)</li> </ul>	<ul style="list-style-type: none"> <li>Desk Docking</li> <li>External Battery</li> <li>Car Adapter</li> <li>Vehicle Docking</li> </ul>
		Dimension & Weight	Dimensions
		Weight	1.5 kg

Note: The standard configuration package are included PWS-870 tablet, capacitive Pen, and power Adapter (not include power cord)

(3) For the peripherals' availability, please check with Advantech's sales directly.

### Front/Back side View



- |                            |                                  |
|----------------------------|----------------------------------|
| 1. 2M Camera               | 6. 5M AF Camera with Flash Light |
| 2. Home key (Programmable) | 7. FAN                           |
| 3. Function key            | 8. NFC RFID Reader (Optional)    |
| 4. Speakers                | 9. Capacitive Pen                |
| 5. Fingerprint (Optional)  | 10. Latch (For external Battery) |

### Left/Right Side View



- |                           |                                     |
|---------------------------|-------------------------------------|
| 1. Kensington Lock        | 7. Screw hole for Extension Module  |
| 2. Power Button           | 8. USB Connector (USB3.0)           |
| 3. Audio Combo Jack       | 9. USB Connector (USB2.0)           |
| 4. HDMI Connector (1.4)   | 10. SD Card Slot (SDXC)             |
| 5. USB Connector (USB3.0) | 11. Screw hole for Extension Module |
| 6. DC-in                  |                                     |