

POC-W243

24" Widescreen Point-of-Care Terminal with IPS TFT Display and Intel 6th Generation Processor



Features

- Runs on Intel® 6th generation, Skylake processor with a fanless, high performance profile
- 24" full HD resolution, IPS LCD with edge to edge, bezel-less design
- USB 3.0 and PCIe4 expansion slot, mini PCIe slot x 2
- Offers a multi-touch option to deliver a truly unmatched touchscreen experience
- IP54 enclosure to protect against dust and water splashing for ease of cleaning
- Isolated design provides unique electric leakage protection for COM ports, and LAN ports, and optional USB port
- Optional Bluetooth, RFID inner WLAN module, Li-ion battery pack, and auto-focus 5M pixel camera
- Support Intel® firmware trusted platform module (TPM) with Intel® Platform Trust Technology (Intel® PTT)
- Equipped with DeviceOn/iService software for remote device management



Introduction

POC-W243 is equipped with an integrated SSD that facilitates real-time data processing and storage. Compliant with IEC 60601-1 medical safety standards for electrical devices, POC-W243 terminals are built for reliable operation in a wide range of healthcare environments.

Moreover, POC-W243 is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn/iService enables easy device configuration and deployment for convenient remote device management.

Specifications

Computing System	CPU*	Intel® Core™ i7-6600U Processor (4M Cache, up to 3.40 GHz) Intel® Core™ i5-6300U Processor (3M Cache, up to 3.00 GHz) Intel® Core™ i3-6100U Processor (3M Cache, 2.30 GHz) Intel® Celeron® Processor 3955U (2M Cache, 2.00 GHz)
	Memory	DDR4-1666/2133 SODIMM (up to 32GB)
	Graphics Controller	Intel HD Graphics 520/510
	G-sensor	2g/±4g/±8g/±16g, 6D/4D orientation detection
	Operating System (Optional)	Windows 7/ Windows 8.1 Industry Pro/ Windows 10 IoT
Display	Display Size	23.8" wide TFT color LCD (16:9)
	Type	IPS
	Max. Resolution	1920 x 1080
	Max. Colors	16.7 M colors (6-bits+A-FRC)
	Pixel Pitch (um)	247.5 x 247.5
	Luminance	250 cd/m ²
	Backlight	LED
Expansion Slot	LCD MTBF	30,000 Hours
	Contrast Ratio	1000 : 1
Expansion Slot	Mini PCIe (mSATA)	2 (Mini PCIe: 1 full-size, 1 half-size)
	PCIe	1x PCIe (x4) slot (Max. card length: 167.65mm) (Supports Gen 1/2/3)
I/O Ports	Serial Ports	2 x RS-232/422/485 (1.5KV isolated) serial port
	USB 3.0 ports	2 x USB 3.0 ports (rear)
	USB 2.0 Ports	2 x USB 2.0 ports (front)
		2 x USB 2.0 ports (rear)
	LAN	2 x Gigabit Ethernet (1.5KV isolated) interfaces (RJ-45)
	HDMI	1 x HDMI max resolution 4096 x 2304 @ 24Hz
	Displayport	1 x DP max resolution 4096 x 2304 @ 60Hz
Audio	2 x 2W speakers; 1 x MIC-in and speaker-out	
Storage	SSD (Default)	128GB SSD
	HDD/mSATA (Optional)	2.5" SATA HDD instead of SSD*, Mini PCIe mSATA
Power Supply	DC Model	AC/DC adapter (Sinpro Model no. HPU101-107)
	Input Voltage	90 ~ 260 V _{AC} ; 1.35 ~ 0.5 A, 47 ~ 63 Hz
	Output Voltage	18 V _{DC} ; 5.55A Max. (100 watts)

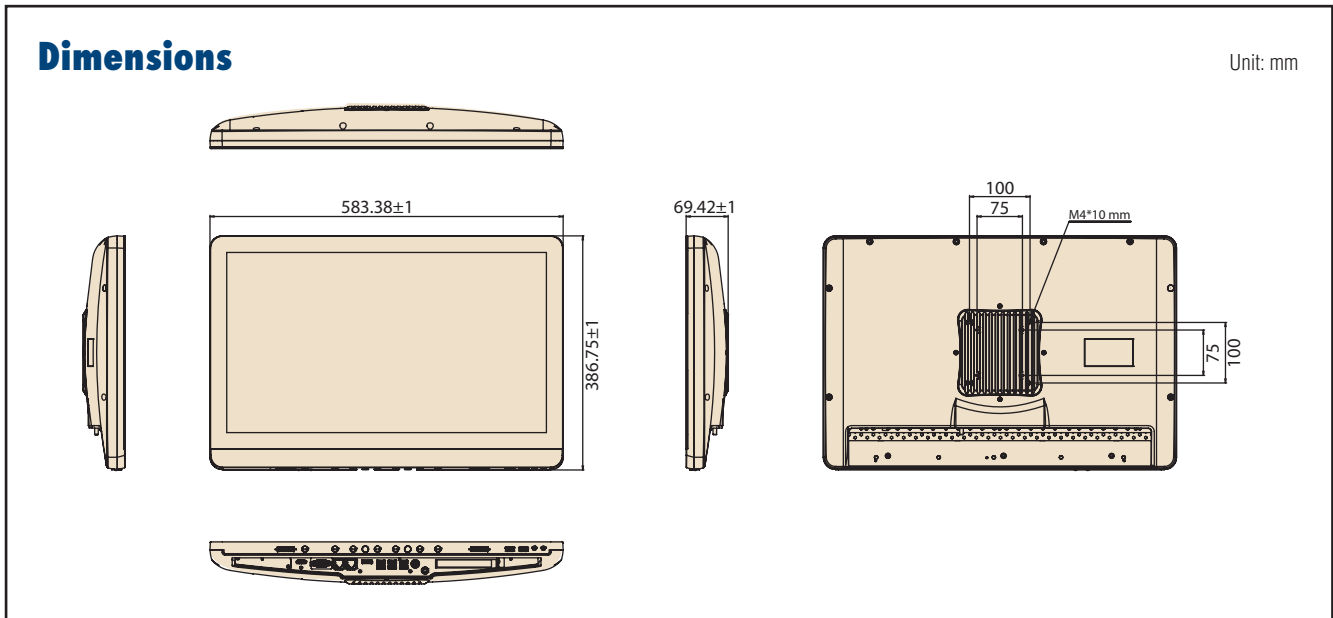
Optional Functions	Battery	3S1P 1750mAH, supports 0.5hr backup operation (Adding the battery will shorten available PCIe x4 slot space inserted)	
	WLAN & Bluetooth	Qualcomm Atheros Dual-band (2.4/5GHz) 802.11 a/b/g/n/ac 2Tx/2Rx WiFi & Bluetooth v4.1	
	RFID*	13.56MHz, ISO-15693, ISO-14443A, ISO-14443B	
	Camera*	Auto-focus 5M pixel camera	
	Smart Card Reader*	Complies with ISO7816-1,2,3,T=1 and T=0 protocol	
Optional Touchscreen	Type	Projected Capacitive 10-points (Clear)	Projected Capacitive 10-point (AG)
	Resolution	Continuous	Continuous
	Light Transmission	90%	80%
	Controller	USB interface	USB interface
	Durability	>100 million touches	>100 million touch
IP Rating	Entire System	IP-54, Alcohol resistance for cleaning purposes	
	Front Panel	IP65	
Certifications	EN60601-1 Edition 3.1 compliance, UL60601-1 Edition 3.1, and CE & FCC Edition 4.0 Class B certified		
Environment	Temperature	Operating: 0° C ~ +40° C, Storage: -20° C ~ +60° C	
	Humidity	Operating: 10% ~ 90%@40°C non-condensed; Storage: 5% ~ 90%@40°C non-condensed	
	Shock Resistance	20G peak acceleration (11ms duration)	
Physical Characteristics	Dimensions (W x D x H)	583 x 386 x 69 mm (22.95" x 15.19" x 2.71")	
	Weight (Bare system)	7.95 kg (17.52 lb.)	
	VESA Mount	100 x 100; 75 x 75	
DeviceOn/iService Remote Device Management	Operating System	Windows 10	
	Common Controls (Reboot, Shutdown)	✓	
	Remote desktop	✓(VNC)	
	Device-Specific Controls (Audio, Backlight)	✓○	
	Connection Status	✓	
	Hardware Status	✓○	
	Hard Disk Status	✓○	
	Batch Operation Support	✓	
	OTA Storage Management	FTP	
	OTA Software Updates	✓	
	Software Watchlist	✓	
	Software Start/Stop	✓○	
	Peripherals Watchlist	✓○	

○ Dependant on model

Note:

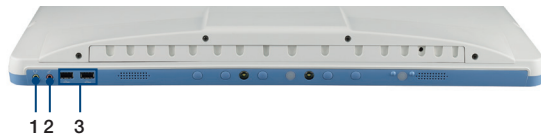
1.* = Customized solution contact Advantech sales team for more information

2. DeviceOn/iService software must be downloaded from the Advantech website at <https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility>



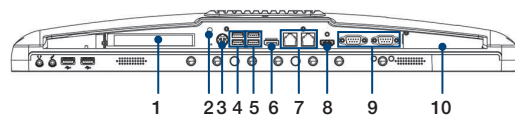
I/O Ports

Front



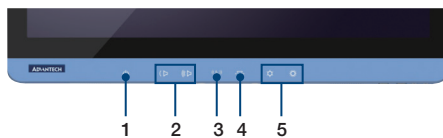
- (1) Speaker Out
- (2) MIC-in
- (3) 2 USB 2.0

Rear



- (1) PCIe (x4) card slot
- (2) Equipotential Terminal Pin
- (3) DC in
- (4) 2 x USB 2.0 ports
- (5) 2 x USB 3.0 ports
- (6) Displayport
- (7) 2 x Gigabit Ethernet interfaces (RJ-45)
- (8) HDMI
- (9) 2 x RS-232/422/485(isolated) serial port
- (10) iDoor Module

Front Function Keys



- (1) Power
- (2) Volume Down/Up
- (3) Touchscreen Status Control
- (4) Read Light Control
- (5) Brightness Decrease/Increase

Ordering Information

Part Number	CPU	DRAM	Touch Panel	SSD
POC-W243-A11D-ACE	Core i7-6600U 2.6G	4GB	P-CAP	128GB
POC-W243-B11D-ACE	Core i5-6300U 2.4G	4GB	P-CAP	128GB
POC-W243-C11D-ACE	Celeron 3955U 2.0G	4GB	P-CAP	128GB

iDoor Module

Option	Description
Option 1	USB2.0 2 port card
Option 2	IEEE 1394 Firewire card
Option 3	RS-232/422/485 2-port card

Accessories

Part Number	Description
PDC-W215-STAND-H3E	PDC-W215 STAND_H3-741L type_6~12kg Black
1702002600	Power Cable (USA) 1.8 M
1702002605	Power Cable (Europe) 1.8 M
1700018704	Power Cord (UK) 1.8 M

Optional Modules

Part Number	Description
POC-W21X-BA0E	Battery Pack, 3S1P, 1750 mAh
POC-W243-WF3E	WLAN (802.11 a/b/g/n/ac) and Bluetooth 4.1 Module

For information about 5M Pixel camera, RFID & Smart card, contact Advantech sales team

PCIe Module

Part Number	Description
96SER-9PN-2P-PE-UP	UPMOST RS-232 CARD 9PIN 2PORT PCIE(G)
XAESC-1213	UPMOST UTB101 1394A EXPANSION CARD
PCIE-1602C-AE	2-port RS-232/422/485 PCIe Comm. Card w/Iso
DMS-IR06-00A1E	Dual LAN port
PCE-USB4-00A1E	4 USB3.0 Ports expansion card(PCIex4)

Recommended Peripherals

- Table stands (TBSD-WHA741L)
- Keyboards (KBD-MCWU1020)
- Mouses (MOU-MCWU1001)
- Scanners (SCN-MCWIG829)

For more information: https://www.advantech.com/products/peripherals/sub_4728dfba-b560-43ba-b264-de3aae98b1ff

DeviceOn/iService

Unified Remote Device Management Software



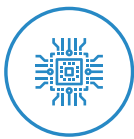
Features

- Supports Advantech devices equipped with Windows, Android, and Linux OS
- Flexible device, location, user, and permissions management
- Enables remote monitoring and control of hardware, software, and peripherals
- Supports over-the-air (OTA) firmware and software updates
- Ensures quick, easy, and secure device onboarding
- RESTful APIs for third-party system integration

Introduction

Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn/iService supports Advantech devices equipped with Windows, Linux, or Android operating systems. The software also supports the management of applications and integrated peripherals, such as a barcode scanner, card reader, camera, and printer. Users can remotely access and control connected devices, take screenshots, rollout OTA upgrades, and use remote desktop capabilities for troubleshooting from any location at any time. Moreover, DeviceOn/iService supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

Total Management



Devices & Hardware

- Windows, Linux, Android
- Hardware, storage, battery



Software & Peripherals

- Software monitoring & access
- Screens, USB devices, printers



Open for Expansion

- Peripheral integration
- Open APIs for integration

Remote Access



Real-Time Monitoring

- Connection/hardware status
- Software/peripheral status
- Failure notifications



Remote Controls

- Power controls
- Audio, backlight controls
- Software controls



Troubleshooting

- Screenshots
- Remote desktop support

Operational Efficiency



OTA updates

- System/software updates
- File repository management
- App store



Batch Controls

- 1-to-many batch reboot, etc.
- Time-saving tasks



Setup Booster

- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture

