▶ **PDMS**
▶ **Anesthesia Control**
▶ **Electronic Health Records**
▶ **Vital Sign Monitoring**
▶ **Endoscopy Imaging**

Medical-Grade All-in-One Computers

Powered by the latest **6th generation Intel® processors**

Advantech's POC series products meet strict quality standards and enable safe, high-performance computing in critical hospital environments.

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(intel®) | **IoT Solutions Alliance**
Premier

Cutting-Edge Platform Delivers High-Performance Computing

▶ Advantech's next-generation POC series computers are equipped with **Intel® 6th generation processor and DDR4 memory.**

▶ Compared to 4th generation models, Intel's 6th generation processor delivers **up to a 30% increase in graphics performance.**
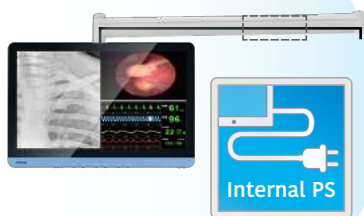
Enhanced Data Security Mechanisms

▶ The provision of **Trusted Platform Module 2.0 technology** offers enhanced security and greater cryptographic agility and consistency across different implementations.

▶ Optional **RFID modules**, **smart card readers**, and **fingerprint scanners** enable identity verification and secure user-friendly access.

Optional Internal Power Supply Unit Upon Request

POC series computers, by default, feature an external power supply for reliable current isolation, they can be fitted with **an internal power supply** unit upon request in order to eliminate wiring and allow easier mounting.

Superior Display/Video Output Imaging

▶ To facilitate PACS and medical imaging applications, POC terminals can be equipped with **DICOM part 14** calibration support upon request.

▶ The terminal display panels support **in-plane-switching screen technology** for enhanced imaging and color presentation, and can be integrated with **an optional PCAP touch** module for more intuitive operation.

Flexible I/O Expansion and Customization

▶ **PCIe x4 slot** or PCIe x1 increases the number of advanced medical-use card solutions available.

▶ **Two mini PCIe** (1 full size and 1 half size) slots facilitate system customization.

▶ Support for **Advantech's iDoor modules** allows the default system I/O to be flexibly extended with additional USB 2.0, IEEE 1394, and isolated ports.

Optional Modules

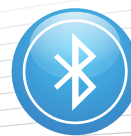| Storage | Smart Card Reader | iDoor Module | PCIe x4 | Mini PCIe | Backup Battery | RFID Module | DICOM Module | Bluetooth Module |

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Medical-Grade All-in-One Computers

Certified to Medical Safety Standards

▶ The POC series computers are certified to the strictest medical safety standards, including I**EC 60601-1 Edition 3.1** and **IEC 60601-1-2 Edition 4.0.**

▶ To comply with IEC 60601-1-2 Edition 4.0 standards, the level of ESD protection provided has increased from 6 kV contact discharge and 8 kV air discharge (as specified in Edition 3) **to 8 kV and 15 kV,** respectively.

Enhanced Infection Control

▶ POC terminals are housed in an **IP54-rated** enclosure and all cables are routed internally to protect against water and dust ingress to enable easy cleaning for enhanced hygiene and contagion control.

▶ The IP54 rating for **resistance to water and dust** ensures compliance with the strictest medical safety standards implemented at healthcare facilities.

High Reliability and 3-Year Extendable Warranty

▶ All POC terminals have undergone **reliability demonstration testing (RDT)** and **highly accelerated life testing (HALT)** to ensure system durability and reliability.

▶ For POC series products, Advantech offers a **3-year warranty** that can be extended to **5 years.**

Supports Remote Management Software (Optional)

▶ POC terminals support **Advantech's POC_Link** intelligent management software that uses **Intel's Active Management Technology** client-server architecture to collect real-time data of system health, network status, and battery charge for remote monitoring and centralized management.

▶ The POC series also supports the **PXE interface** and **UUIDs** to enable mass installation and remote updates.

Applications

Operating Room   **Critical Care**   **Surgical Modeling**   **Radiology / PACS**

Contact us at **d.healthcare@advantech.com**   **http://www.advantech.com/digital-healthcare/**

Medical-Grade All-in-One Computers

		POC-S199	POC-W(P)213	POC-W243
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	DDR4-1866/2133 SODIMM (up to 32GB)		
	Graphics Controller	Intel® HD Graphics 520/510		
	G Sensor	2g/±4g/±8g/±16g, 6D/4D orientation detection		
	OS Support	Windows 7/ Windows 8.1 Industry Pro/ Windows 10 IoT		
Display	Panel Type/Size	19" 4:3 LED Display, 1280 x 1024(G)	21.5" 16:9 widescreen TFT color LCD	23.8" 16:9 widescreen TFT color LCD
Expansion Slot	Mini PCIe (mSATA)	2 (1 x full size, 1 x half size)		
	PCIe	1x PCIe (x4)		
I/O	Serial Ports	2 x RS-232/422/485 (1.5 kV isolation)		
	USB 3.0	2 x USB 3.0 (rear)		
	USB 2.0	2 x USB 2.0 (rear)	2 x USB 2.0 (rear)	2 x USB 2.0 (front), 2 x USB 2.0 (rear)
	LAN	2 x Gigabit Ethernet (1.5 kV isolation) interfaces (RJ-45)		
	HDMI	1 x HDMI output, supports resolutions of up to 4096 x 2304 @ 24Hz		
	DisplayPort	1 x DisplayPort output, supports resolutions of up to 4096 x 2304 @ 60Hz		
	Audio	2 x speakers (1 W) 1 x Mic In/Speaker Out	2 x speakers (2W)	2 x speakers (2W) 1 x Mic In/Speaker Out
Power Supply	DC Model	Input Voltage: 90 ~ 260 VAC, 1.35 ~ 0.5 A, 47 ~ 63 Hz Output Voltage: 18 VDC, 5.55A Max. (100 watts)		
	AC Model	-	Input Voltage: 100 - 240 VAC , 47Hz to 63Hz, Maximum output power 150W Output Voltage: 12.0 V ± 2%, 0A to 8.30A (at convection)	
Optional Functions	SSD (Default)	128GB SSD		
	HDD/mSATA (Optional)	2,5" SATA HDD instead of SSD*, Mini PCIe mSATA		
	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	
	Smart Card Reader	Compliant with ISO7816-1, 2, 3, T=1 and T=0 protocols		
	DICOM	Support DICOM pre-set		
IP Rating	Entire System	IP54 (with IP65-rated front panel)		
Certifications		CE & FCC Class B certified EN60601-1 compliance,	CE & FCC Class B certified UL60601-1/EN60601-1 and CCC certified (POC-W213 only) EN60601-1 compliance (POC-WP213 only)	CE & FCC Class B certified EN60601-1 compliance, UL60601-1 certified (POC-W243 only)
Environment	Temperature	Operating: 0 ~ 40 ℃ (32 ~ 104 °F) Storage: -20 ~ 60 ℃ (-4 ~ 140 °F)		
	Humidity	Operating: 10 ~ 90% @ 40 ℃ non-condensing Storage: 5 ~ 90% @ 40 ℃ non-condensing		
	Shock Resistance	20G peak acceleration (11ms duration)		
Physical Characteristics	Dimensions (W x D x H)	471 x 415 x 76 mm (18.5 x 16.35 x 2.98")	550 x 360 x 65 mm (21.65 x 14.17 x 2.56")	583 x 386 x 69 mm (22.95 x 15.19 x 2.71")
	Weight	7.5 kg (16.5 lb)	6.9 kg (15.2 lb)	7.95 kg (17.5 lb)
	VESA Mount	100 x 100/75 x 75		