

Product Selection Guide

Medical Computers



Model		POC-W243	POC-W213
Computing Systems	Chipset	Intel QM87	Intel QM87
	CPU	Intel® Core™ i7 6600U Processor (4 M Smart Cache, 3.4 GHz) Intel® Core™ i5 6300U Processor (3 M Smart Cache, 3.0 GHz) Intel® Core™ i3 6100U Processor (3 M Smart Cache, 2.3 GHz) Intel® Celeron™ Processor 3955U (2 M Smart Cache, 2.0 GHz)	Intel® Core™ i7 6600U Processor (4 M Smart Cache, 3.4 GHz) Intel® Core™ i5 6300U Processor (3 M Smart Cache, 3.0 GHz) Intel® Core™ i3 6100U Processor (3 M Smart Cache, 2.3 GHz) Intel® Celeron™ Processor 3955U (2 M Smart Cache, 2.0 GHz)
	Memory	Up to 32GB DDR4 1666/2133MHz SDRAM (optional)	Up to 32GB DDR4 1666/2133MHz SDRAM (optional)
	Graphics	Intel HD Graphics 520/510	Intel HD Graphics 520/510
	Operating System	Win 7, Win 8.1 Industry Pro, Win 10 IoT	Win 7, Win 8.1 Industry Pro, Win 10 IoT
Display	Size/Display Type	23.8" wide TFT color LCD (16:9)	21.5" wide TFT color LCD (16:9)
	Max. Resolution	1920 x 1080 (H x V)	1920 x 1080 (H x V)
	Max. Colors	16.7M colors (6-bits+A-FRC)	16.7M colors (RGB 8-bits)
	Pixel Pitch (mm)	0.2745 x 0.2745	0.2745 x 0.2745
	Viewing Angle	178°/178°	178°/178°
	Luminance	250 cd/m²	250 cd/m²
	LCD MTBF	30,000 Hours	30,000 Hours
	Contrast Ratio	1000 : 1	1000 : 1
Expansion Slot	PCIe	1 x PCIe (x4)	1 x PCIe (x4)
	Mini PCIe	2 (1 x full-size, 1 half-size)	2 (1 x full-size, 1 half-size)
	M.2	-	-
Storage	Storage	128GB SSD (default) 1 x 2.5" SATA HDD or SSD (optional)	128GB SSD (default) 1 x 2.5" SATA HDD or SSD (optional)
I/O Port	Serial Port	2 x RS-232/422/485 (isolated)	2 x RS-232/422/485 (isolated)
	USB Port	2 x USB 3.0 ports (rear) 2 x USB 2.0 ports (front) 2 x USB 2.0 ports (rear)	2 x USB 3.0 ports (rear) 4 x USB 2.0 ports (rear & PCIe(x4)slot)
	VGA/DVI/HDMI Port	1 x HDMI-out 1 x Displayport-out	1 x HDMI-out 1 x Displayport-out
	Speakers (1W)	2 x speakers (2 W) 1 x MIC-in and speaker out	2 x speakers (2 W)
	LAN	2 x Gigabit Ethernet (isolated) interfaces (RJ-45)	2 x Gigabit Ethernet (isolated) interfaces (RJ-45)
	Cooling Fan	Fanless	Fanless
Power Supply	AC / DC Model	AC/DC adapter (Sinpro Model no. HPU101-107)	AC/DC adapter (Sinpro Model no. HPU101-107)
	Input Voltage	90~260 VAC, 47~63 Hz, 1.35~0.5 A	90~260 VAC, 47~63 Hz, 1.35~0.5 A
	Output Voltage	+18 VDC, 5.55 A max. (100 watts)	+18 VDC, 5.55 A max. (100 watts)
Optional Functions	WLAN & Bluetooth	Qualcomm Atheros Dual-band (2.4/5GHz), 802.11 a/b/g/n 2Tx/2Rx WiFi & Bluetooth v4.1	Qualcomm Atheros Dual-band (2.4/5GHz), 802.11 a/b/g/n 2Tx/2Rx WiFi & Bluetooth v4.1
	Web Cam	5M Camera, AF (Optional)	-
	Barcode Scanner	1D/2D Barcode scanner	1D/2D Barcode scanner
	Smart Card Reader	Complies with ISO7816-1,2,3,T=1 and T=0 protocol	Complies with ISO7816-1,2,3,T=1 and T=0 protocol
	RFID	13.56MHz, ISO-15693, ISO-14443A, ISO-14443B	13.56MHz, ISO-15693, ISO-14443A, ISO-14443B
	Battery	3S1P 1750mAh Supports min. 0.5hr backup operation Projected Capacitive 10-points (AR or AG)	3S1P 1750mAh Supports min. 0.5hr backup operation Projected Capacitive 10-points (AR or AG)
Optional Touchscreen Features	Type	Projected Capacitive 10-points (AR or AG)	Projected Capacitive 10-points (AR or AG)
	Light Transmission	90%	90%
	Controller	USB interface	USB interface
	Durability	Over 100 million touches	Over 100 million touches
IP Rating	Entire System	IP54	IP54/IPX1
	Front Panel	IP65	IP65
Certifications	CE	Yes	Yes
	FCC	Yes	Yes
	IEC 60601-1	Yes	Yes
	EN60601-1	Yes	Yes
	UL 60601-1	Yes	Yes
Environment	CCC	Yes	Yes
	Temperature	Operating: 0° C ~ +40° C, Storage: -20° C ~ +60° C	Operating: 0° C ~ +40° C, Storage: -20° C ~ +60° C
	Humidity	10 ~ 95% @40°C (non-condensing)	10 ~ 95% @40°C (non-condensing)
Physical Characteristics	Shock Resistance	20G peak acceleration (11ms duration)	20G peak acceleration (11ms duration)
	Dimensions (W x H x D)	583 x 386 x 69 mm (22.95" x 15.19" x 2.71")	550 x 360 x 65 mm (21.65" x 14.17" x 2.56")
	Weight	7.95 kg	6.9 kg
	VESA Mounting	75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm

- Test results by Passmark BatteryMon V2.1 with a minimum of peripherals connected



POC-S199	POC-W152		POC-W102
Intel QM87	Intel QM87		Intel QM87
Intel® Core TM i7 6600U Processor (4 M Smart Cache, 3.4 GHz) Intel® Core TM i5 6300U Processor (3 M Smart Cache, 3.0 GHz) Intel® Core TM i3 6100U Processor (3 M Smart Cache, 2.3 GHz) Intel® Celeron TM Processor 3955U (2 M Smart Cache, 2.0 GHz)	Intel® Core TM i7 4650U Processor (4 M Smart Cache, 1.7 GHz) Intel® Core TM i5 4300U Processor (4 M Smart Cache, 1.9 GHz) Intel® Baytrail J1900 Processor (2 M Smart Cache, 2.0 GHz)		Intel® Celeron® J1900 Processor (2M Cache, up to 2.42 GHz)
Up to 32GB DDR4 1666/2133MHz SDRAM (optional)	Up to 16GB DDR3L 1600MHz (optional)		Up to 8GB DDR3L 1600MHz SDRAM
Intel HD Graphics 520/510 Win 7, Win 8.1 Industry Pro, Win 10 IoT	Intel HD Graphics 5000/4400 Win 7, Win 8 Embedded Standard, Win 8 Industry Pro, Win 10		Intel HD Graphics Win 10
19" LED PANEL (4:3)	15.6" TFT LCD (16:9)		10.1" wide TFT color LCD (16:10)
1280 x 1024 (H x V)	1920 x 1080 (H x V)	1366 x 768 (H x V)	1280 x 800 (H x V)
16.7M colors	16.7 M colors (6-bits+A-FRC)		262k colors (6-bits)
0.294x 0.294	0.179 x 0.179	0.252 x 0.252	0.1695 x 0.1695
170°/160°	160°/160°	160°/160°	170°/170°
350 cd/m²	400 cd/m²	300 cd/m²	300 cd/m²
70,000 Hours	30,000 Hours		25,000 Hours
1000:1	700:1	500:1	1300:1
-	1 x PCIe (x4)		-
2 (1 x full-size, 1 half-size)	2 (1 x full-size, 1 half-size)		-
-	-		1 x M.2 2230 (for Wi-Fi & others) 1 x M.2 2242 (dedicated for storage) 1 x M.2 2280 (dedicated for storage) (optional)
500GB HDD (default)	1 x 2.5" SATA HDD or SSD		1 x 2.5" SATA HDD or SSD
2 x RS-232/422/485 (isolated)	1 x RS-232/422/485 (isolated)		M.2 SSD 64GB MLC by default
2 x USB 3.0 ports (rear) 3 x USB 2.0 ports (rear)	2 x USB 3.0 ports (rear) 3 x USB 2.0 ports (rear)		2 x RS-232 Serial Port (Isolation) 2 x USB 3.0 ports
1 x HDMI-out 1 x Displayport-out	1 x HDMI & VGA		1 x HDMI-out
2 x speakers (2 W)	2 x speakers (2 W)		2 x speakers (2 W)
2 x Gigabit Ethernet (isolated) interfaces (RJ-45)	1 x Gigabit Ethernet RJ45 (Isolation)		2 x Gigabit Ethernet RJ45 (Isolation)
Fanless	Fanless		Fanless
AC/DC adapter (Sinpro Model no. HPU101-107)	AC/DC adapter (Sinpro Model no. HPU101-107)		AC/DC adapter (Sinpro Model no. HPU101-107)
90 ~ 260 V, 47 ~ 63 Hz, 1.35 ~ 0.5 A	90~260 VAC, 47~63 Hz, 1.35~0.5 A		90~260 VAC, 47~63 Hz, 1.35~0.5 A
+18 VDC, 5.55 A max. (100 watts)	+18 V, 5.55 A max. (100 watts) DC		+18 VDC, 5.55 A max. (100 watts)
Qualcomm Atheros Dual-band (2.4/5GHz), 802.11 a/b/g/n	802.11 a/b/g/n/ac + Bluetooth 4.1		802.11 a/b/g/n/ac + Bluetooth 4.1
2Tx/2Rx Wi-Fi & Bluetooth v4.1	5M Camera, AF		5M Camera, AF
-	-		1D/2D Barcode scanner
-	Complies with ISO7816-1,2,3,T=1 and T=0 protocol		-
13.56MHz, ISO-15693, ISO-14443A, ISO-14443B	Supports NFCIP-1 & NFCIP-2, ISO18092, ISO21481, ISO14443A/B, ISO15693		Supports NFCIP-1 & NFCIP-2, ISO18092, ISO21481, ISO14443A/B, ISO15693
3S1P 1750mAh Supports min. 0.5hr backup operation	3S2P 5500mAh, Support at least 0.5 hr backup operation		-
Projected Capacitive 10-points (AR or AG)	P-cap Multi-touch (AR)	P-cap Multi-touch (AR) or Res TS (AG), True Flat Design	True Flat Design, Res
90%	P-cap 90%	P-cap 90%; Res. TS 75%	80%
USB interface	USB interface		5-wire
Over 100 million touches	50 million touches		over 10 million touches
IP54	IP43		IPX1
IP65	-		-
Yes	Yes		Yes
Yes	Yes		Yes
Yes	-		-
-	Yes		Yes
Yes	Yes		-
-	No		-
Operating: 0° C ~ +40° C, Storage: -20° C ~ +60° C	Operating: 0° C ~ +40° C, Storage: -20° C ~ +60° C		Operating: 0° C ~ +40° C, Storage: -20° C ~ +60° C
10 ~ 95% @40°C (non-condensing)	10 ~ 95% @40°C (non-condensing)		10 ~ 95% @40°C (non-condensing)
20G peak acceleration (11ms duration)	20G peak acceleration (11ms duration)		20G peak acceleration (11ms duration)
470.5 x 415.2 x 75.64 mm (18.52" x 16.35" x 2.98")	405.53 x 274 x 60.82 mm (15.96" x 10.78" x 2.39")		267 x 202 x 40 mm
7.4 kg (16.31 lb)	4.65 Kg		Net 1.85kg; Gross 2.5kg
75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm		75 x 75 mm