



Medical | [www.wincomm.com.tw](http://www.wincomm.com.tw)

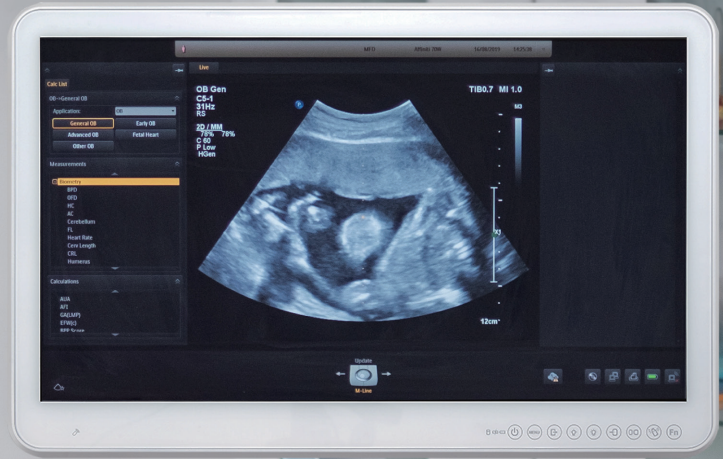


# Medical Brief Solutions

Medical e-Healthcare Platform Solutions



**Wincomm**



# The Global Leading Application Ready ePlatform Service Provider

*-We Commit We Deliver*

Wincomm itself would commit to listen from voice of customers (V.O.C.) to high customization for Market Ready ePlatform to fulfill our valuable partner requirements.

Through our Application Ready Platform, integrated of our partners domain knowledge with the best specialty system solution, Wincomm would provide from HW to SW with Customization design to manufacturing service to fulfill flexible but specific applications.

With dedicated ePlatform Services, we develop Applied Computing Platform - Fulfill with Medical Panel PC & Industrial Automation & Stainless/Outdoor Panel PC, and Longevity & Stable Operation to satisfy various Customization & ODM applications.



## Table of Contents

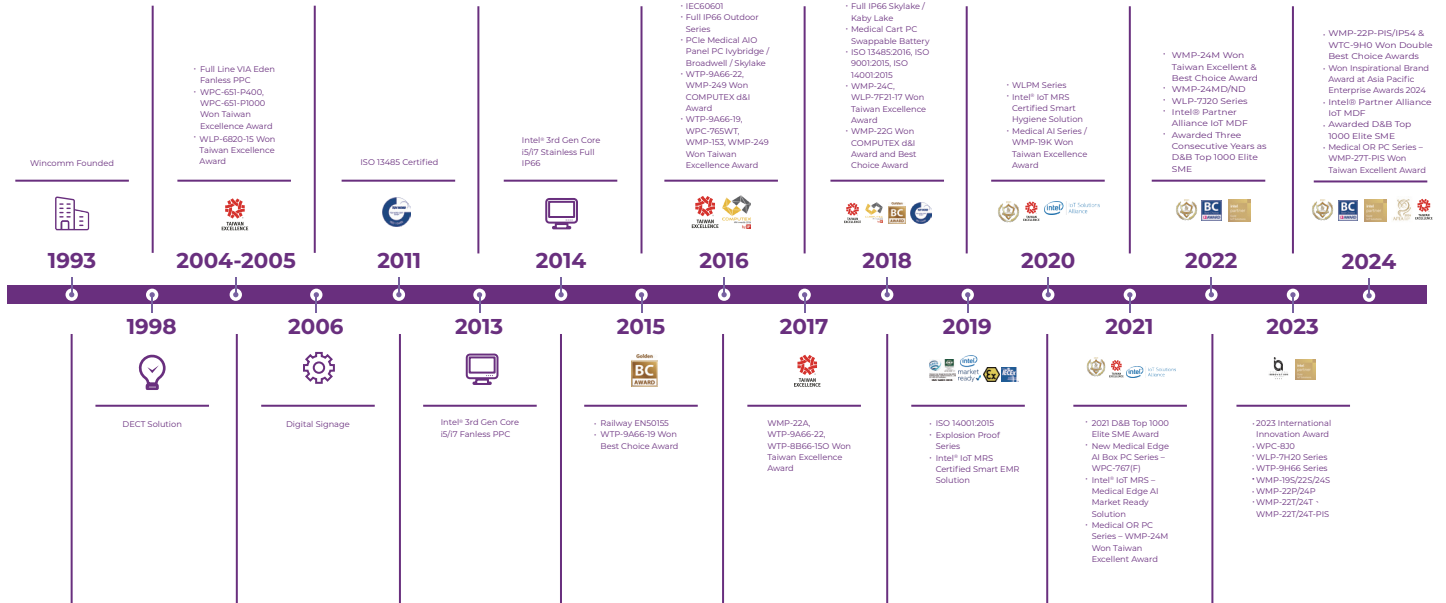
1	Company Introduction
3	Medical OR All In One PC Series
7	Powerful AI Ready Medical Solutions
11	Medical Cart All In One PC Series
16	Point of Care Medical All In One PC Series
19	Slim Medical All In One PC
21	Medical Display for Medical Device
23	Medical Box PC for Medical Device



## About Wincomm

Wincomm is one of Taiwan's leading manufacturer of medical and industrial panel PC with relative embedded computing products. Wincomm designs and develops all in one panel PC, selected monitor, rugged box PC and embedded software products for a broad range of medical to industrial applications. Founded in 1993, Wincomm is an ISO14001, ISO9001 & ISO13485 certified company and located in Science-Based Industrial Park (SBIP), Hsinchu, Taiwan.

## Milestone



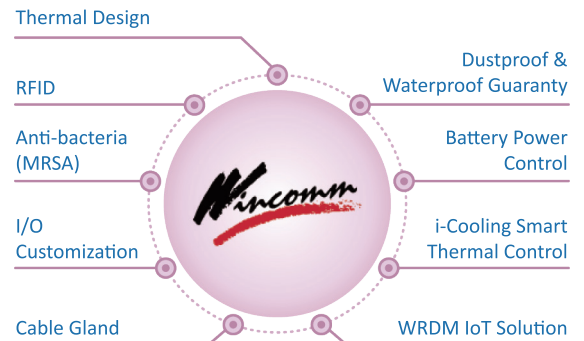
## Innovative Technology Service

### One-stop design and manufacturing services

- Share market info to engage project kick-off and development at early stage
- Ensure the consistency of design and manufacturing quality
- Speed up time-to-market by well-management of EVT/DVT/PVT/MP phase

### Logistic and product life cycle support

- Achieve on-time delivery (OTD) through ERP control and flexible operation
- Dedicated management of EOL key parts and timely after-sales service
- Cost and performance management in value chain
- Providing competitive costs by proactive and aggressive supply chain management
- Strategic bundling prices are considered for the co-existence of small and medium or huge volume project



## Manufacturing Process & Customization Service

### Flexible Capacity and Manufacturing Management to fulfill diversify needs

Wincomm is mainly focus on highly customization in versatile applications on small to middle amount applications, and thus developed a flexible capacity on customization production management system as our core manufacturing competence.

### Manufacturing Process



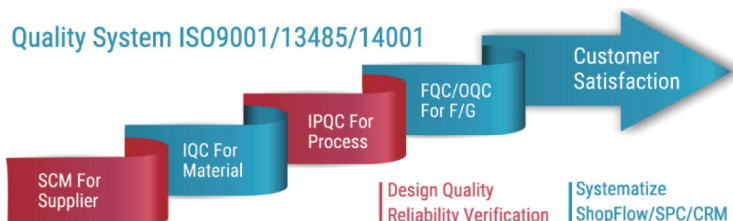
### Customization Service

To pursuit on highly customization design value, Wincomm developed a special design-manufacturing management system to exactly serve high diverse customer needs. In such a highly quality control system, it could insert a customized step to enable design-change flow at different amount requirement, and which is proof our valuable DMS technique to satisfy our global partners.



## Quality & Environment Policy

Wincomm has a strict quality control process, from material incoming IQC, in process IPQC and finish good FQC/ OQC. Besides, we also focus on supplier chain management (SCM), to continue enhancing suppliers' quality level via assessment and audit system. Base on most are customization - oriented product structure, we are committed to fulfill the up-to-date ISO standards to ensure the high quality level of all our products. Wincomm has been granted ISO9001:2015, ISO13485:2016 and ISO14001:2015 since 2018. Moreover, Wincomm has been passed ISO80079-34:2018, a specified quality system to be used by an organization for the production of equipment and protective systems for explosive atmosphere.



## Reliable Quality with Experienced Product Certification Granted

### Medical Grade Certification

All series of medical grade products passed with the latest version of medical safety IEC 60601-1 and EMC IEC 60601-1-2 certification in US, EU, JP and rest of the world, including CE / FCC / VCCI Class B, MDR (EN60601-1), UL/cUL (IEC 60601-1).

### Industrial Grade Certification

All series of industrial grade products passed CE/FCC/VCCI class B and Shock/Vibration/Drop test approval. In the series of full IP grade products, it passed IP66/69K and be able to pass rugged environment requirement. In 2019, Wincomm has been certificated ISO80079-34:2018, ready for C1D2/ATEX/IECex explosion proof products production, and now all kinds of professional products design are ready to deliver with this strictly quality control system.



## Award Winner



- Medical Series-Touch Panel PC**  
 2016 [Taiwan Excellence] WMP-153 / WMP-249  
 2016 [Computex d&i Award] WMP-249  
 2017 [Taiwan Excellence] WMP-22A  
 2018 [Taiwan Excellence] WMP-24C  
 2018 [Computex d&i Award] WMP-22G  
 2018 [Best Choice Award] WMP-22G  
 2021 [Taiwan Excellence] WMP-19K  
 2022 [Taiwan Excellence] WMP-24M  
 2022 [Best Choice Award] WMP-24M-PI5  
 2024 [Best Choice Award] WMP-22P-PI5  
 2024 [Taiwan Excellence] WMP-27T-PI5



- Medical Series-Box PC**  
 2004 [Taiwan Excellence] WPC-651-P400/  
 WPC-651-P1000  
 2016 [Taiwan Excellence] WPC-765WT



- Industrial Series**  
 2005 [Taiwan Excellence] WLP-6820-15  
 2018 [Taiwan Excellence] WLP-7F21-17



- Full IP Series**  
 2015 [Best Choice Award] WTP-9A66-19  
 2016 [Taiwan Excellence] WTP-9A66-19  
 2016 [Computex d&i Award] WTP-9A66-22  
 2017 [Taiwan Excellence] WTP-9A66-22  
 2017 [Taiwan Excellence] WTP-8B66-150  
 2024 [Best Choice Award] WTC-9H0

## Wincomm Global Location



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# Medical OR All In One PC Series

## Introduction

Medical OR All In One PC series is designed for operating room applications, such as endoscopic surgery, robotic surgery, and so on.

With anti-bacteria elegant aluminum housing, it supports full sealed waterproof for IP65 at front and rear side IP54 with unique I.O. cover, and two display port output, one unique video-input function to receive medical capture devices for all types of minimally invasive surgery.

The special power adapter inside design is featuring at clean and easy installation to secure operating safety.

## Key Features

- Intel® Core™ & Celeron Processor
- Support Windows 11 & fTPM
- LAN/COM 4KV Isolated Module
- 23.8" FHD MVA/AHVA Diagnostic Panel
- Power Supply Inside for WMP-24M-PIS
- Anti-Bacteria White Aluminum Elegant Housing
- Optional Full HD Capture Card & HDMI® Video-In
- Waterproof IP65 at Front and Rear Side IP54 with Unique I.O. Cover
- Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications



Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications



Waterproof IP65 at Front and Rear Side IP54 with Unique I.O. Cover



FHD MVA/AHVA Diagnostic Panel with Optical Bonding



Anti-Bacteria (MRSA) Housing Defaulted Reduce Bacteria >99%



Equipped with Batteries or UPS Battery (WMP-24M)



DICOM Part 14 Compliance



Isolated 4KV Ports Unique Electric Leakage Protection For COM/LAN



Support Video-In Function



More Expansion On PCI-E Ports





Special Power Supply Inside Design to Secure Operating Safety

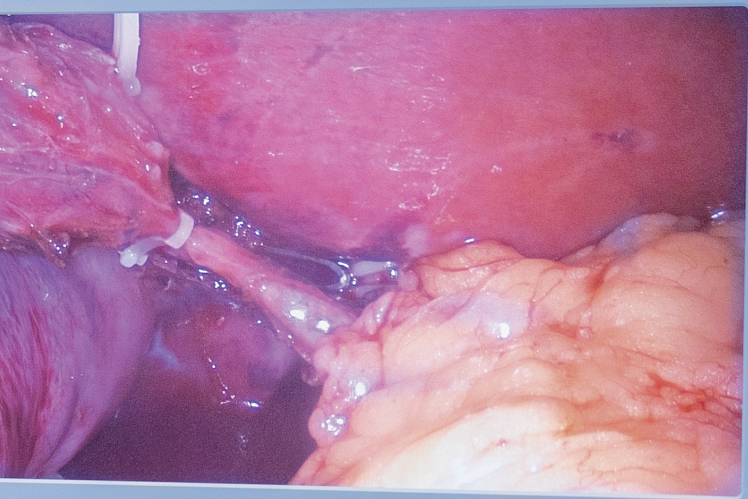
## Medical OR AIO Touch Panel PC

Product Name	WMP-22T	WMP-22T-PIS	WMP-24T	WMP-24T-PIS
Product Photo				
<b>Main System</b>				
CPU	FCBGA1744 12th generation Intel® Core i7/i5/i3 and Celeron processor (35W max.)			
Memory	DDR5 up to 64G			
Chipset	Soc			
OS support	Optional Win 10 IoT Enterprise LTSC 64 bit, Windows 11 IoT Enterprise GAC 64 bit			
<b>Display</b>				
Size	21.5"		23.8"	
Resolution	1920 x 1080 (Full HD)			
Color Numbers	16.7M colors			
View Angle (H/V)	178/178			
Contrast	1000:1		3000:1/1000:1 (PIS)	
Brightness (nits)	250		400	
<b>Touch Panel &amp; IO</b>				
Type	Full Flat P.cap Touch			
USB	4 x USB 3.2 gen II			
COM	1 x RS232, 1 x RS232/RS422/RS485			
LAN	1 x RJ45 1Gbps Intel® I219LM (AMT/Vpro) 1 x RJ45 2.5Gbps Intel® I226V			
Audio/ Video	2 x 3.5mm phone jack connector (Line-out, and Mic-in) Output: 1 x DP 1.4a/DP++, 1 x HDMI® 2.0b / Input: 1 x HDMI®-in (without audio)			
<b>Storage &amp; Expansion</b>				
Storage	1 x M.2 (M Key, 2280) with PCIe x4 for SSD, 1 x 2.5" SATA3 HDD/SSD drive bay			
Expansion Slot	1 x PCI-E x8 expansion slot (PCI-E x4 Signal), 1x M.2 E key 2230			
<b>Mechanical &amp; Environmental</b>				
Weight (net kg)	8.8kg	9.2kg	10.1 kg	10.5 kg
Operating Temp.	0~35°C			
Cooling	Fanless			
IP rating	Front: IP65, Rear: IP54 with cable cover attached			
<b>Power</b>				
Power Input	DC 14~24V	AC input 100 ~240V / 47 ~ 63 Hz, DC output 24V	DC 14~24V	AC input 100 ~240V / 47 ~ 63 Hz / DC output 24V
Power Adapter	AC input 100 ~240V / 47 ~ 63 Hz, External power adapter, 180W	250W (MBU-250-108)	AC input 100 ~240V / 47 ~ 63 Hz, External power adapter, 180W	250W (MBU-250-108)
Optional Battery	Integrated battery x 1 (output 100W max.)	NA	Integrated battery x 1 (output 100W max.)	NA
<b>Certification</b>				
Certification	FCC (Part 18 Class B) CE (EN 60601-1-2 :2015) VCCI (2016-11, class B) UL (ES60601-1:2012)By Project	cUL (C22.2 No. 60601-1:2014) By Project ISO 14971 EN 60601-1:2006 + A11: 2011 + A1: 2013 + A12: 2014 Compliance (By project)		
	IEC62133 By Project	NA	IEC62133 By Project	NA
<b>Options &amp; Customization</b>				
Major Options	1.802.11 ac/a/b/g/n WLAN + Bluetooth module 2.802.11 ax/a/b/g/n WLAN + Bluetooth module (Wifi-6) 3.2.5" SSD module 4.M.2 type 2280 module 5.RFID (13.56MHz) 6. TPM 2.0 module (SPI Interface) 7. Full HD capture card or 4K SC710N1 12G SDI capture card		8.Equipotential terminal pin 9.AG film 10.DICOM part 14 compliance 11. Optical bonding 12. 4KV ISO USB2.0 x 2 card 13. Auto focus 5M pixel webcam module	
Customization	1. Integrated battery x 1 (output 100W max.) 2. USB 5,6 (USB 2.0)	NA	1. Integrated battery x 1 (output 100W max.) 2. USB 5,6 (USB 2.0)	NA
	1. Tempered glass 2. Touch with AG coating: anti-reflective, anti-microbial, anti-glare, anti-fingerprint			

## Medical OR AIO Touch Panel PC

Product Name	WMP-24M	WMP-24M-PIS
<b>Product Photo</b>		
<b>Main System</b>		
<b>CPU</b>	Intel® Comet Lake Core i7 /i5/i3/Pentium/Celeron processor (35W max.)	
<b>Memory</b>	DDR4 up to 64G	
<b>Chipset</b>	Intel® Q470E Chipset	
<b>OS support</b>	Win 10/Win 11 IoT Enterprise	
<b>Display</b>		
<b>Size</b>	23.8"	
<b>Resolution</b>	1920 x 1080 (Full HD)	
<b>Color Numbers</b>	16.7M colors	
<b>View Angle (H/V)</b>	178/178	
<b>Contrast</b>	3000:1	1000:1
<b>Brightness (nits)</b>	250(MVA)	400(AHVA)
<b>Touch Panel &amp; IO</b>		
<b>Type</b>	Full Flat P.cap Touch	
<b>USB</b>	4 x USB 3.2 gen II	
<b>COM</b>	1 x RS232, 1 x RS232/RS422/RS485	
<b>LAN</b>	1 x RJ45 1Gbps Intel® I219LM (AMT/Vpro) 1 x RJ45 2.5Gbps Intel® I225V	
<b>Audio/ Video</b>	3.5mm phone jack connector * 2 (Line-out, Mic-In) Output: 1 x DP 1.2 / DP++, 1 x HDMI® 1.4a; Input: 1 x HDMI®-in	
<b>Storage &amp; Expansion</b>		
<b>Storage</b>	1 x M.2 (M Key, 2280) with PCIe x4 & SATA3 for SSD, 1 x 2.5" SATA3 HDD/SSD	
<b>Expansion Slot</b>	1 x PCI-E x16 ,1x M.2 E key 2230, 1x M.2 (B/M Key, 2242/2260/2280) with PCIe1	
<b>Mechanical &amp; Environmental</b>		
<b>Weight (net kg)</b>	10.8	11.2
<b>Operating Temp.</b>	0~35°C	
<b>Cooling</b>	Fanless	
<b>IP rating</b>	Front: IP65, Rear: IP54 when I/O cover attached	
<b>Power</b>		
<b>Power Input</b>	DC 14~24V	NA
<b>Power Adapter</b>	AC input 100 ~240V / 47 ~ 63 Hz, External	AC input 100 ~240V / 47 ~ 63 Hz / DC output 24V 250W, Internal
<b>Optional Battery</b>	Integrated battery 81Wh or 108.5Wh x 1 (output 100W max.)	NA
<b>Certification</b>		
<b>Certification</b>	CE: EN 60601-1-2:2015(V4.0) EN 60601-1:2006 + A11: 2011 + A1: 2013 + A12: 2014 Compliance VCCI: 2016-11, Class B FCC: Part 18 Class B	UL: ANSI/AAMI ES60601-1:2012 (V3.1) (By project) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) (By project) ISO 14971 / IEC62133 (By project)
<b>Options &amp; Customization</b>		
<b>Major Options</b>	1. 802.11 ac/a/b/g/n WLAN + Bluetooth module (Wifi-5) 2. 802.11 ax/a/b/g/n WLAN + Bluetooth module (Wifi-6) 3. 2.5" SSD module 4. M.2 type 2280 module 5. RFID (13.56MHz)	6. TPM 2.0 module 7. Full HD capture card or 4K SC710N1 12G SDI capture card 8. Equipotential terminal pin 9. AG film 10. DICOM part 14 compliance (optional order configuration)
<b>Customization</b>	1. Integrated battery 81Wh or 108.5Wh x 1 (output 100W max.) 2. USB 5,6 3. Optical bonding	NA
<b>Customization</b>	1. Tempered glass 2. Touch with AG coating: anti-reflective, anti-microbial, anti-glare, anti-fingerprint 3. Auto focus 5M pixel webcam module	





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# Powerful AI Ready Medical All In One PC

## Introduction

Powerful AI Ready Medical All In One PC series is designed for powerful medical imaging applications, especially for AI-assisted diagnostic to surgery application.

With unique independent graphic card design ready, it could speed up the AI-assisted imaging process, and one unique video-input function to receive medical capture devices for all types of minimally invasive surgery, making it perfectly suit for all kinds medical imaging process applications.

## Key Features

- Intel® Core™ Processor
- FHD MVA Diagnostic Panel
- Optional Internal UPS Battery Pack
- Anti-Bacteria White Plastic Housing
- Optional 2nd HDD Support RAID 0,1
- Optional Independent MXM Graphic Card
- Optional DICOM Part 14 Compliance Solution
- Optional USB/LAN/COM 4KV Isolated Module
- Waterproof Front IP65 & IPX1 for Whole System
- Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications
- Optional PCIe Video Capture Card or Intel Vision Accelerator Card



Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications



Waterproof Front IP65 & IPX1 for Whole System



Full Flat P-CAP Touch Screen With Easy To Clean Hot Key Design



Anti-Bacteria (MRSA) Housing Defaulted Reduce Bacteria >99%



Equipped with Swappable Batteries or UPS Battery



DICOM Part 14 Compliance



Isolated 4KV Ports Unique Electric Leakage Protection For COM/LAN/USB



MXM Graphic Support 3D Medical Imaging




More Expansion On PCI-E Ports



Customization Service




## Powerful AI Ready All In One PC

Product Name	WMP-19S	WMP-22S	WMP-24S
Product Photo			
<b>Main System</b>			
CPU	LGA1700 package 12th /13th /14th generation Intel® Core i7/i5/i3/Pentium/Celeron processor (35W max.)		
Graphic	Intel® integrated HD Graphics 770 by CPU		
Memory	Two 5600 MHz DDR5 SODIMM socket support dual Channel, non-ECC, up to 96GB		
Chipset	Intel® Q670E Chipset		
OS support	Windows 10 IoT LTSC 2021 (64bit) / Windows 11 IoT GAC (64bit)		
<b>Display</b>			
Size	19"	21.5"	23.8"
Resolution	1280 x 1024 (SXGA)	1920 x 1080 (FHD)	
Color Numbers	16.7M colors		
View Angle (H/V)	170/160	178/178	
Contrast	1000:1		3000:1
Brightness (nits)	350	250	
<b>Touch Panel &amp; IO</b>			
Type	Projected Capacitive Multi-Touch Panel		
USB	4 x USB 3.2 Gen II (Type A) 1 x USB 3.2 Gen II (Type C, Support DP 1.4a display output; 5V/3A power output)		
COM	1 x RS232/RS422/RS485, 1 x RS232		
LAN	1 x Intel® I219LM with 10/100/1000 Mbps, support AMT / vPro 1 x Intel® I226V with 10/100/1000/2500 Mbps		
Audio	3.5mm phone jack connector * 2 (Line-out, Mic-In)		
Video	DP 1.4a/DP++ x1, HDMI® 2.0b x 1, HDMI®-in x 1 (Without Audio)		
<b>Storage &amp; Expansion</b>			
Storage	M.2 M.Key 2280 PCIe X 4 SSD (Support NVMe SSD up to 1TB) M.2 B/M Key, (2280) with PCIe x1 PCIe/SATA/USB		
Expansion Slot	M.2 E key 2230 x 1, M.2 B/M Key, (2280) with PCIe x1 PCIe/SATA/USB PCI-E x 4 expansion slot x 1 (40W max)		
<b>Mechanical &amp; Environmental</b>			
Weight (kg)	7.5kg (w/o power adapter)	8 kg (w/o power adapter)	9 kg (w/o power adapter)
Operating Temp.	0~40°C		
Cooling	Fan		
IP rating	IP65 (Front Side), IPX1 for whole system		
<b>Power</b>			
Power Input	DC 14~19V input		
Power Adapter/ Battery	AC input 100 ~240V / 47 ~ 63 Hz / DC output 19V / 250W (MPU250A-107 W/PSE)		
<b>Certification</b>			
Certification	CE: EN 60601-1-2:2015(V4.1), EN 60601-1:2006 + A11: 2011 + A1: 2013 + A12: 2014 Compliance VCCI: 2016-11, Class B (PSU with PSE) / FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.2) (By project) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.2) (By project) ISO 14971 / IEC62133		
<b>Options &amp; Customization</b>			
Major Options	1. 802.11 ac/a/b/g/n WLAN + Bluetooth module or Wifi 6 2. RS-232 x 2 (COM 3,4) 3. Full HD capture card & 4K SC710N1 M2 12G SDI capture card / SC710N1-L HDMI®2.0 4. Battery pack (100W max) (DR-202 series) (100min battery life by PCmark 8 test condition) 5. Independent Nvidia MXM A4500/A2000/A1000 graphic 6. AG film (Can't co-exist with DICOM) 1.3 M pixel webcam module		7. GPIO capture card control solution 8. Equipotential terminal pin 9. RFID (13.56MHz) 10. TPM 2.0 module 11. PCIe x 4 riser card 12. USB 2.0 x 2 (USB 5,6)
Customization	NA	1. USB 2.0 (Type A) x 2 at side 2. Auto focus 5M pixel webcam module 3. Smart card reader at side or CAC / PIV Reader(FIPS-201) 4. DICOM part 14 compliance module Max. Error Ratio less than 20% (optional order configuration) 1.Tempered glass	

## Powerful AI Ready All In One PC

Product Name	WMP-19K	WMP-22K (by project)	WMP-24K
Product Photo			
<b>Main System</b>			
CPU	Intel® Coffee Lake Refresh Core i5/i7		
Graphic	Intel® integrated HD Graphics 630		
Memory	up to 64G		
Chipset	Intel® Q370		
OS support	Win10		
<b>Display</b>			
Size	19"	21.5"	23.8"
Resolution	1280 x 1024 (SXGA)	1920 x 1080 (FHD)	
Color Numbers	16.7M		
View Angle (H/V)	170/160	178/178	
Contrast	1000:1	3000:1	
Brightness (nits)	350	250	
<b>Touch Panel &amp; IO</b>			
Type	Full Flat P.cap Touch		
USB	USB 3.1 gen II x 4		
COM	RS232 x 1, RS232/RS422/RS485 X 1		
LAN	RJ45 x 2		
Audio / Video	3.5mm phone jack connector * 2 (Mic-In, Line-Out) / DP x 2		
<b>Storage &amp; Expansion</b>			
Storage	2.5" SATA III HDD M.2 M.Key 2280 SSD		
Expansion Slot	PCI-E*4 x 1 M.2 Type E key x 1 for WIFI + Bluetooth Module		
<b>Mechanical &amp; Environmental</b>			
Weight (kg)	7.5	TBD	9.0
Operating Temp.	0~40°C		
Cooling	Fan		
IP rating	IP65 at front side/ IPx1 for whole system		
<b>Power</b>			
Power Input	DC 14~19V	TBD	DC 14~19V
Power Adapter/ Battery	AC 100~264V / UPS Battery	TBD	AC 100~240V / UPS Battery
<b>Certification</b>			
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006 + A11: 2011 + A1: 2013 + A12: 2014 Compliance VCCI: 2016-11, Class B (PSU with PSE), FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) ISO 14971 / BIS:IS13252 (Part I) / IEC60950-1		
<b>Options &amp; Customization</b>			
Major Options	1. Full HD Capture Card 2. TPM 2.0 Module 3. RFID (13.56Hz) 4. Equipotential Terminal Pin 5. AG Film 6. Anti-bacteria Stand or VESA Wall Mount  1. 2.5" HDD driver bay kit	7. WLAN (Wifi 5 or Wifi 6) + Bluetooth Module (M.2 E key) 8. Auto Focus 3M Pixel Webcam Module 9. M.2 type 2280 storage module 10. PCI-E x4 Riser Card 11. Battery Pack (100W max, PSE) (DR-202W2) 12. NVIDIA A2000 / T1000 graphic with 8/4 GB dedicated video memory  By Project	1. 2.5" SSD Module 2. Movidius Card for Vision Accelerator AI 3. Cable clean IO cover 4. USB 2.0 (Type A) x 2 5. Smart Card Reader 6. DICOM Part 14 Compliance Module 7. Integrated battery 81Wh x 1 8. USB 2.0 x 2 (USB 5,6) 9. RS-232 x 2 (COM 3,4)
Customization	1. Tempered Glass 2. Touch with AG coating		

## Medical Box PC

Product Name	WPC-789-PSI	WPC-767	WPC-767F
<b>Product Photo</b>			
<b>Main System</b>			
<b>CPU</b>	Intel® 12th Generation Intel® Core i9/i7/i5 Processor, 65W Max	Intel® 8th/9th Generation Intel® Core i7/i5/i3, Pentium and Celeron Processor, 35W Max.	Intel® 8th/9th Generation Intel® Core i7/i5/i3, Pentium and Celeron Processor, 65W max.
<b>Memory</b>	DDR4 up to 128G (ECC memory support)	DDR4 up to 32G	
<b>Chipset</b>	Intel® W680 Express	Intel® H310 Express	
<b>OS support</b>	Windows 10 (2019-LTSC) (64bit), Windows 11 (64bit)		
<b>IO</b>			
<b>USB</b>	Front: 2 x USB 3.2 Gen1 (W/Cover) Rear: 5 x USB 3.2 Gen2 1 x USB 3.2 Gen2x2 Type C Internal: 4 x USB 2.0	4 x USB 3.0 ; 2 x USB 2.0	
<b>COM</b>	2 x RS232/RS422/RS485		
<b>LAN</b>	3 x RJ-45 (LAN1 : Intel® 1225LM Support AMT/Vpro)	2 x RJ-45 (LAN 1 : Intel® i219V ; LAN 2 : Intel® i211AT)	
<b>Video Port</b>	1 x DP1.4a, 1 x HDMI® 2.0, 1 x VGA	1 x DP1.2, 1 x DVI-D, 1 x VGA	
<b>Storage &amp; Expansion</b>			
<b>Storage</b>	1 x M.2 (Key M, up to 25110) w/PCIex4 Gen4 for SSD 1 x M.2 (Key M, 2242/2260/2280) w/PCIex4 Gen3 for SSD 1 x 2.5" SATA3 SSD	1 x 2.5" SATA HDD w/Optional Easy Removable Drive Bay 1 x 2.5" SATA HDD 1 x M.2 M.Key 2280 SSD (Conflict with Easy Removable Drive Bay)	
<b>Expansion Slot</b>	1 x M.2 (Key E, 2230) for Wireless 1 x M.2 (Key B, 3042/3052) 2 x PCIe Gen4 Slots (PCIe1/PCIe3:single at x16(PCIe1); dual at x8 (PCIe1) / x8 (PCIe3)) / (PCIe1: Support riser card x8/x8) 2 x PCIe4 (Gen4)	1 x M.2 (Key E, 2230) for Wireless 1 x Mini-PCIe (Full Size) 1 x PCI-Ex16(25W max) 1 x PCI-Ex1(10W max)	1 x M.2 (Key E, 2230) for Wireless 1 x Mini-PCIe (Full Size) 1 x PCI-Ex16(75W max) 1 x PCI-Ex1(10W max)
<b>Mechanical &amp; Environmental</b>			
<b>Weight (kg)</b>	TBD	7.0	5.0
<b>Operating Temp.</b>	0~40°C	0~35°C	0~50°C
<b>Cooling</b>	Fan	Fanless	Fan
<b>Power</b>			
<b>Power Input</b>		DC 12~24V	DC 12~24V
<b>Power Adapter/Battery</b>	AC input 100 ~240V / 47 ~ 63 Hz / 500W	AC input 100 ~240V, DC output 24V 180W	
<b>Certification</b>			
<b>Certification</b>	CE: EN 60601-1-2 (V4.1), EN 60601-1 (V3.2) VCCI: 2016-11, Class B (PSU with PSE -TBD) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.2) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.2) ISO 14971 / IEC62133	CE: EN 60601-1-2:2015 (V4.0) VCCI: 2016-11, Class B (Power adapter with PSE) FCC: Part 18 Class B, Canada, ICES-003 UL: ANSI/AAMI ES60601-1:2012 (V3.1) (By Project) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) (By Project) ISO 14971 / IEC62133 (By Project)	
<b>Options &amp; Customization</b>			
<b>Major Options</b>	1. Wifi 6/7 2. 2.5" SSD module 3. 7" 800*480 LCD 4. 7" PCAP touch 5. Equipotential terminal pin 6. Remote power button	1. 802.11 ac/a/b/g/n WLAN + BT module 2. Equipotential terminal pin 3. 2.5" Easy Removable Bay (i-Door) for Second 2.5" HDD 4. PCIe16 AI Core XP4 / XP8 (Intel Movidius 2 x AI Core XM 2280 / 4 x AI Core XM 2280) 5. Power Adapter w/ 2 meter DC Extension Cable	
<b>Customization</b>	NA	1. TPM 2.0 module 2. M.2 M.Key 2280 (Can't Coexist with Easy Removable 2.5" HDD Drive Bay) 3. 65W CPU	1. TPM 2.0 module or fTPM 2. M.2 M.Key 2280 (Can't Coexist with Easy Removable 2.5" HDD Drive Bay)



# Medical Cart All In One PC Series

## Introduction

Medical Cart All In One PC series is designed for nursing cart applications.

With hot swappable batteries, it supports 24/7 run time and reading light to fulfill the nursing round from day time to night time. Equipped with Intel Core & Celeron processors, it extended original medical all in one series powerful design and upgraded the I.O. interface to the latest version.

With intelligent i-control management, it optimized computing power, battery and thermal performance to keep fanless under hospital operating temperature. The special power adapter inside design for WMP-24G-PIS is featuring at clean and easy installation to secure operating safety.

## Key Features

- Intel® Core™ & Celeron Processor
- FHD MVA Diagnostic Panel
- Optional 2nd HDD Support RAID 0,1
- Optional PCIeX4 Full HD Capture Card
- Power Supply Inside for WMP-24G-PIS
- Optional USB/LAN/COM 4KV Isolated Module
- Anti-Bacteria White Plastic Housing & Fanless
- Reading Light Suit for Night Time Nurse Round
- Waterproof Front IP65 & IPX1 for Whole System
- Hot Swappable Battery Up to Three for 24/7 Operation
- Optional Vpro by CPU for Remote Control Management
- Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications



Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications



Waterproof Front IP65 & IPX1 for Whole System



Full Flat P-CAP Touch Screen With Easy To Clean Hot Key Design



Anti-Bacteria (MRSA) Housing Defaulted Reduce Bacteria >99%



Hot Swappable Battery Up to Three



Support Vpro CPU for Intel Active Management Technology



Isolated 4KV Ports Unique Electric Leakage Protection For COM/LAN/USB



Reading Light for Nurse Round at Night







More Expansion On PCI-E Ports





Customization Service

# Medical Cart All In One PC

Product Name	WMP-22P	WMP-24P	WMP-22P-PIS	WMP-24P-PIS
Product Photo				
<b>Main System</b>				
CPU	FCBGA1744 Intel® 12th Gen. Core i7/i5/i3 & Celeron Processor (15W Max.)			
Memory	DDR5 up to 64G			
Chipset	SoC Support Vpro by Core i7/i5 CPU			
OS support	Win 10 IoT Enterprise LTSC, Win 11 IoT Enterprise GAC			
<b>Display</b>				
Size	21.5"	23.8"	21.5"	23.8"
Resolution	1920 x 1080 (Full HD)			
Color Numbers	16.7M			
View Angle (H/V)	178/178			
Contrast	1000:1	3000:1	1000:1	3000:1
Brightness (nits)	250			
<b>Touch Panel &amp; IO</b>				
Type	Full Flat P.cap Touch			
USB	4 x USB3.2 gen II			
COM	1 x RS-232, 1 x RS232/RS422/RS485			
LAN	2 x RJ45 (1 x 1.0 Gbps, 1 x 2.5 Gbps)			
Audio/ Video	1 x Line-out & 1 x Microphone-in (3.5mm phone jack) / 1 x DP1.4a, 1 x HDMI®2.0, 1 x HDMI® (video-in)			
<b>Storage &amp; Expansion</b>				
Storage	1 x M.2 (M Key 2280) with PCIe4 for SSD 1 x 2.5" SATA3 SSD/HDD w/ doggy door			
Expansion Slot	1 x PCIe4 (25W max.), 1 x M.2 E Key			
<b>Power</b>				
Power Input	DC 14~24V		AC input 100~240V / 47~63 Hz / output DC 14-24V (Power Supply Inside)	
Power Adapter /Battery	AC input 100~240V / 47~63 Hz / DC output 24V, 180W Optional 3 x Hot Swappable Battery Pack(DR202)		Option Hot Swappable battery	
<b>Mechanical &amp; Environmental</b>				
Weight (kg)	7.0	9.0	7.2	9.2
Operating Temp.	0~40°C		0~35°C	
Cooling	Fanless Design with External Heatsink			
IP rating	Front IP65, Rear IPx1			
<b>Certification</b>				
Certification	CE: EN 60601-1-2:2015(V4.0) EN 60601-1:2006 + A11: 2011 + A1: 2013 + A12: 2014 Compliance VCCI: 2016-11, Class B (PSU/Battery with PSE) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) By Project cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) By Project / ISO 14971 / IEC62133		CE (EN 60601-1-2:2015 ver. 4.0) EN-60601-1 V3.2 / ISO 14971 / IEC62133 VCCI (2016-11, class B (PSU/Battery with PSE)) FCC (part 18 Class B) UL (ES60601-1:2012 (V3.1) cUL (C22.2 No. 60601-1:2014 V3.1) (by project)	
<b>Options &amp; Customization</b>				
Major Options	<ol style="list-style-type: none"> <li>802.11 ac/a/b/g/n WLAN + Bluetooth module</li> <li>802.11 ax/a/b/g/n WLAN + Bluetooth module (WiFi-6)</li> <li>Auto focus 5M pixel webcam module</li> <li>2.5" Storage</li> <li>M.2 type 2280 module</li> <li>RFID; RFID with single sign on</li> <li>TPM 2.0 module (SPI)</li> <li>Full HD capture card or 4K SC710N1 12G SDI capture card</li> <li>USB 2.0 x 2 at side</li> </ol>	<ol style="list-style-type: none"> <li>Smart card reader at side or CAC / PIV Reader</li> <li>5V1A power Jack</li> <li>Equipotential terminal pin</li> <li>AG film</li> <li>Light sensor for LCD auto brightness</li> <li>DICOM part 14 compliance</li> <li>Isolated 4KV module</li> <li>30 Watt Power output card for external device</li> <li>USB 5/6</li> <li>Integrated hot-swappable batteries</li> <li>IP54 Rear Cover</li> </ol>	<ol style="list-style-type: none"> <li>5MP Auto Focus Webcam</li> <li>TPM 2.0 module</li> <li>Smart Card Reader at side or CAC / PIV Reader</li> <li>RFID Reader</li> <li>AG Film</li> <li>Wifi WLAN + Bluetooth w/ 2x antenna</li> <li>M.2 Type 2280 Module</li> <li>2.5" SATA3 Storage</li> <li>Equipotential Terminal Pin</li> <li>Full HD Capture Card or 4K SC710N1 12G SDI Capture Card</li> </ol>	<ol style="list-style-type: none"> <li>USB 2.0 x 2 at Side</li> <li>5V1A Power Jack</li> <li>DICOM Part 14 Compliance</li> <li>Isolated 4KV module (4KV iso gigaLAN x 1, 4KV iso COM x 1)</li> <li>30 watt power output card for external device</li> </ol>

## Medical Cart All In One PC

	WMP-22J	WMP-24J
<b>Product Photo</b>		
<b>Main System</b>		
<b>CPU</b>	Intel® Whiskey Lake Lake Core i5/i7 (15W)	
<b>Memory</b>	up to 64 GB	
<b>Chipset</b>	Soc	
<b>OS support</b>	Win10	
<b>Display</b>		
<b>Size</b>	21.5"	23.8"
<b>Resolution</b>	1920 x 1080 (Full HD)	
<b>Color Numbers</b>	16.7M	
<b>View Angle (H/V)</b>	178/178	
<b>Contrast</b>	1000:1	3000:1
<b>Brightness (nits)</b>	250	
<b>Touch Panel &amp; IO</b>		
<b>Type</b>	Full Flat P.cap Touch	
<b>USB</b>	USB 3.1 Gen II x 4	
<b>COM</b>	RS232 x 1, RS232/RS422/RS485 x 1	
<b>LAN</b>	RJ45 x 2	
<b>Video Port</b>	DP x 2, HDMI® video-in x 1	
<b>Storage &amp; Expansion</b>		
<b>Storage</b>	1 x M.2 NVMe SSD, 1 x 2.5" SSD/HDD w/ doggy door	
<b>Expansion Slot</b>	PCI-E*4 x 1 M.2 Type E key x 1 for WiFi + Bluetooth Module	
<b>Power</b>		
<b>Power Input</b>	DC 14~24V	
<b>Power Adapter/ Battery</b>	AC 100~240V / Optional 3 x Hot Swappable Battery Pack(DR202W2) (Power Adaptor Inside for WMP-24G-PIS Only)	
<b>Mechanical &amp; Environmental</b>		
<b>Weight (kg)</b>	7.0	9.0
<b>Operating Temp.</b>	0~40°C	
<b>Cooling</b>	Fanless	
<b>IP rating</b>	IP65 at front side/ IPx1 for whole system	
<b>Certification</b>		
<b>Certification</b>	CE: EN 60601-1-2:2015(V4.0) EN 60601-1:2006 + A11: 2011 + A1: 2013 + A12: 2014 Compliance VCCI: 2016-11, Class B (PSU/Battery with PSE) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) ISO 14971 / IEC62133	
<b>Options &amp; Customization</b>		
<b>Major Options</b>	<ol style="list-style-type: none"> <li>5M AF Webcam</li> <li>Full HD Capture Card</li> <li>TPM 2.0 Module</li> <li>Side 2 x USB</li> <li>Smart Card Reader</li> <li>2.5" HDD module</li> <li>5V1A Power Jack</li> <li>RFID (13.56Hz)</li> <li>CAC / PIV Reader (FIPS-201)</li> <li>Wifi WLAN + Bluetooth w/ 2x antenna</li> <li>4K SC710N1 12G SDI Capture Card</li> </ol>	<ol style="list-style-type: none"> <li>Equipotential Terminal Pin</li> <li>AG Film</li> <li>Anti-bacteria Stand</li> <li>Hot Swappable Battery Pack: DR202W2x 3</li> <li>Charger Bank: JW202W2 w/200W Power Adaptor</li> <li>Power Adaptor w/ 2m DC Extension Cable</li> </ol>
<b>Customization</b>	<ol style="list-style-type: none"> <li>Temper Glass</li> <li>COM Port support 5V1A</li> <li>AG Coating</li> </ol>	<ol style="list-style-type: none"> <li>I/O Cover</li> <li>M.2 NVMe SSD</li> <li>DICOM Part 14 Compliance</li> <li>30 Watt Power output card for external device</li> </ol>
	NA	
	<ol style="list-style-type: none"> <li>Light Sensor for Auto Brightness</li> </ol>	<ol style="list-style-type: none"> <li>Light Sensor for Auto Brightness</li> <li>UHD 4K2K Panel (No Video-in)</li> </ol>







OB Gen  
C5-1  
31Hz  
RS  
2D / MM  
78% 78%  
C 60  
P Low  
HGen

Calc List  
OB-General OB  
Application: OB  
General OB Early OB  
Advanced OB Fetal Heart  
Other OB

Measurements  
Biometry  
BPD  
OFD  
HC  
AC  
Cerebellum  
FL  
Heart Rate  
Cerv Length  
CRL  
Humerus

Calculations  
AUA  
AFI  
CALMIP  
EFWD  
SPD K<sub>2</sub>max

Update  
M-Line



# Point of Care Medical All In One PC Series

## Introduction

Point of Care Medical All In One PC series is designed for general purpose medical all kinds applications. With embedded battery, it supports up to 2 hours uninterrupted power to secure operation safety and anti-bacterial plastic housing to avoid infection.

The optional isolated configuration, signal and voltage feedback loops are also eliminated, assuring no interference between the Panel PC and versatile medical equipment devices. Moreover, patient safety is not compromised due to high voltage issues as well.

## Key Features

- Intel® Core™ & Celeron & Atom Processor
- FHD MVA Diagnostic Panel
- Optional Embedded Batteryx1
- Reading Light for WMP-24F/24C/24MD/24ND
- Anti-Bacteria White Plastic Housing
- Optional Video-In for WMP-24F/24C/24MD/24ND
- Optional USB/LAN/COM 4KV Isolated Module
- Waterproof Front IP65 & IPX1 for Whole System
- Optional PCIe4 or PCIe16 Full HD Capture Card
- Optional Vpro by CPU for Remote Control Management
- Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications



Medical Latest EN/UL 60601-1 & 60601-1-2 Certifications



Waterproof Front IP65 & IPX1 for Whole System



Full Flat P-CAP Touch Screen With Easy To Clean Hot Key Design



Anti-Bacteria (MRSA) Housing Defaulted Reduce Bacteria >99%



Equipped with UPS Battery



DICOM Part 14 Compliance



Isolated 4KV Ports Unique Electric Leakage Protection For COM/LAN/USB



Support Vpro CPU for Intel Active Management Technology



More Expansion On PCI-E Ports








Customization Service

## Point of Care Medical All In One PC - Fanless

Product Name	WMP-15P	WMP-19P	WMP-22P-IP54	WMP-24P-IP54
Product Photo				
<b>Main System</b>				
CPU	FCBGA1744 Intel® 12th/13th Gen. Core i7/i5/i3 & Celeron Processor (15W Max.)			
Memory	DDR5 up to 96G		DDR5 up to 64G	
Chipset	SoC Support Vpro by Core i7/i5 CPU			
OS support	Win 10 IoT Enterprise LTSC, Win 11 IoT Enterprise GAC			
<b>Display</b>				
Size	15.6"	19"	21.5"	23.8"
Resolution	1366 x 768	1280 x 1024 (SXGA)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)
Color Numbers	16.7M			
View Angle (H/V)	178/178			
Contrast	500:1	1000:1	1000:1	3000:1
Brightness (nits)	400	350	250	250
<b>Touch Panel &amp; IO</b>				
Type	Full Flat P.cap Touch			
USB	USB 3.1 Gen II x 4			
COM	1 x RS-232, 1 x RS232/RS422/RS485			
LAN	2 x RJ45 (1 x 1.0 Gbps, 1 x 2.5 Gbps)			
Video Port	1 x Line-out & 1 x Microphone-in (3.5mm phone jack) / 1 x DP1.4a, 1 x HDMI**2.0, 1 x HDMI** (video-in)			
<b>Storage &amp; Expansion</b>				
Storage	1 x M.2 (M Key 2280) with PCIe4 for SSD, 1 x 2.5" SATA3 SSD/HDD w/ doggy door			
Expansion Slot	1 x PCIe4 (25W max.), 1 x M.2 E Key			
<b>Mechanical &amp; Environmental</b>				
Weight (kg)	5.0	7.5	7.0	9.0
Operating Temp.	0~40°C			
Cooling	Fanless			
IP rating	IP65 at front side/ IPx1 for whole system		IP65 at front side/ Rear IP54	
<b>Power</b>				
Power Input	DC 14~24 V			
Power Adapter/ Battery	AC input 100~240V / 47 ~ 63 Hz / DC output 24V, 180W Optional UPS Battery			
<b>Certification</b>				
Certification	CE: EN IEC 60601-1-2:2015/A1:2021(Ed 4.1) EN 60601-1: 2006/A2:2021; IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-1:2005/AMD2:2020(15P for Standard / 19P by Project) VCCI: 2016-11, Class B (PSU with PSE / Battery not include PSE) FCC: Part 18 Class B UL: AAMI ES60601-1:2005/(R)2012 and A1:2012/(R)2012 and A2:2021 (By project) cUL: CAN/CSA-C22.2 No. 60601-1:14 (By project) ISO 14971 / IEC62133			
<b>Options &amp; Customization</b>				
Major Options	1. 802.11 ac/a/b/g/n WLAN + Bluetooth module 2. 802.11 ax/a/b/g/n WLAN + Bluetooth module (Wifi-6) 3. Auto focus 5M pixel webcam module 4. 2.5" SSD module 5. M.2 type 2280 module 6. RFID (13.56MHz) 7. TPM 2.0(SPI) module 8. Battery pack (100W max.) 9. COM3,4 10. USB5,6 11. Equipotential terminal pin 12. AG film 13. PCI-E x4 riser card 14. Full HD /4K capture card 15. Isolated 4KV module (optional order configuration) 4KV Isolated USB 2.0 (High speed) connector x 1 4KV Isolated gigaLAN connector x 1 4KV Isolated COM connector x 2 (one is RS-232/422/485, one is RS-232) 16. AC DC Power adapter 18V 100W (15P for MDR Only / 19P for EU only) (optional order configuration) 17. GPIO capture card control solution		1. 802.11 ac/a/b/g/n WLAN + Bluetooth module 2. 802.11 ax/a/b/g/n WLAN + Bluetooth module (Wifi-6) 3. Auto focus 5M pixel webcam module 4. 2.5" Storage 5. M.2 type 2280 module 6. RFID (13.56MHz); RFID with single sign on 7. TPM 2.0 module (SPI) 8. Full HD capture card or 4K SC710N1 12G SDI capture card 9. USB 2.0 x 2 at side 10. Smart card reader at side or CAC / PIV Reader (FIPS-201) 11. 5V1A power Jack (for Standard Type) 12. Equipotential terminal pin 13. AG film (Can't exist with DICOM) 14. Light sensor for LCD auto brightness (Can't exist with webcam & DICOM) 15. DICOM part 14 compliance (optional order configuration) (Can't exist with Light sensor) 16. Isolated 4KV module (optional order configuration) 17. 30 Watt Power output card for external device 18. USB 5/6 (USB 2.0 can't co-exist with side USB)	
Customization	1. FHD panel (optional order configuration) 1. Tempered Glass 2. Touch Panel with Anti-glare Coating 3. COM5,6 (New I/O bracket, remove USB5,6) 4. Light sensor for LCD auto brightness (can't co-exist with webcam)		NA 1. Tempered Glass 2. Touch Panel with Anti-glare Coating 3. COM Ports Support 5V1A Output	

# Point of Care Medical All In One PC - Fanless/Fan

Product Name	WMP-24ND	WMP-24MD	WMP-15J	WMP-19J	WMP-15S
Product Photo					
<b>Main System</b>					
CPU	Intel® 10th Gen. Core i7/i5/i3/Pentium/Celeron Processor (35W Max.)	Intel® 10th Gen. Core i7/i5/i3/Pentium/Celeron Processor (35W Max.)	Intel® Whiskey Lake Lake Core i5/i7 (15W)		Intel® Apollo Lake J3455
Memory	up to 64G				up to 8G
Chipset	Q470E		Soc		
OS support	Win 10 / Win 11		Win 10		
<b>Display</b>					
Size	23.8"	23.8"	15.6"	19"	15.6"
Resolution	1920 x 1080 (Full HD)		1366 x 768	1280 x 1024 (SXGA)	1366 x 768
Color Numbers	16.7M				
View Angle (H/V)	178/178		170/160		
Contrast	3000:1		500:1	1000:1	500:1
Brightness (nits)	250		400	350	400
<b>Touch Panel &amp; IO</b>					
Type	Full Flat P.cap Touch				
USB	USB3.2 Gen II x 4		USB 3.1 Gen II x 4		USB 3.0 x 2, USB 2.0 x 2
COM	RS232 x 1, RS232/RS422/RS485 x 1				
LAN	RJ45 x 2				
Video Port	DP1.2/DP++ video output x 1, HDMI® 1.4a video output x 1, HDMI®-video input x 1		DP1.2 x 1, HDMI® 1.4 x 1		DP x 2
<b>Storage &amp; Expansion</b>					
Storage	M.2 (M Key, 2280) w/PCIe4 & SATA3 for SSD x 1, 2.5" SATA3 HDD/SSD drive bay x 1		M.2 SATA III SSD X1, Optional 2.5" SSD/HDD		64G SSD
Expansion Slot	M.2 E Key 2230 x 1 M.2 (B/M Key 2242/2260/2280) w/PCIe x 1 PCIe16 (60W max) x 1	M.2 E Key 2230 x 1 M.2 (B/M Key 2242/2260/2280) w/PCIe x 1 PCIe16 (20W max) x 1	PCI-E*4 x 1 M.2 Type E key x 1 for WiFi + Bluetooth Module		PCI-E*16 x 1, Mini PCIe x 1, M.2 Type E key x 1 for WiFi + Bluetooth Module
<b>Mechanical &amp; Environmental</b>					
Weight (kg)	9.7		5.0	7.5	5.2
Operating Temp.	0~35°C		0~40°C		
Cooling	Fan	Fanless			Fanless
IP rating	IP65 at front side/ IP1 for whole system				
<b>Power</b>					
Power Input	DC 14~24 V				DC 12V
Power Adapter/ Battery	AC input 100~240V / 47 ~ 63 Hz / DC output 24V, 180W (External)		AC 100~240V, Optional UPS Battery		
<b>Certification</b>					
Certification	CE: EN 60601-1-2:2015(V4.0) EN 60601-1:2006 + A11: 2011 + A1: 2013 + A12: 2014 Compliance by project VCCI: 2016-11, Class B (PSU with PSE / Battery not include PSE) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) by project cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) by project ISO 14971 / IEC62133 by project				EMC: FCC Part 18 Class B, VCCI Class B (PSU w/PSE) CE: EN60601 ~ 1-2: 2015(V4.0) MDD: EN60601-1: 2006/A1:2013(V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014(V3.1) ISO14971/ IEC62133
<b>Options &amp; Customization</b>					
Major Options	<ol style="list-style-type: none"> <li>WLAN + Bluetooth Module (Wi-Fi 5 / Wi-Fi 6)</li> <li>Auto Focus 5M Pixel Webcam Module</li> <li>M.2 2280 Module</li> <li>RFID (13.56MHz)</li> <li>TPM 2.0 Module or fTPM</li> <li>Full HD Capture Card or 4K SC710N1 12G SDI Capture Card</li> <li>Smart Card Reader at Side or CAC / PIV Reader (FIPS-201) / or DVD Drive</li> <li>2.5" SSD (can't co-exist with DVD and smart card reader)</li> <li>Equipotential Terminal Pin</li> <li>AG Film (Can't Co-exist with DICOM Module)</li> <li>DICOM Part 14 Compliance (Max. Error Ratio Less than 20%, Optional Order Configuration)</li> <li>Integrated battery 28Wh x 1 (100W max.)</li> <li>COM 3/4</li> <li>USB 5/6 (USB 2.0)</li> </ol>	<ol style="list-style-type: none"> <li>WLAN + Bluetooth module</li> <li>Wifi 802.11 ax/a/b/g/n WLAN + Bluetooth module (Wifi-6)</li> <li>RFID reader (13.56MHz)</li> <li>TPM 2.0 (Trusted Platform Module)</li> <li>2.5" SSD module</li> <li>M.2 SSD 2280</li> <li>UPS Battery pack (100W max.)</li> <li>5V1A power Jack (for IPOA Standard Type)</li> </ol>	<ol style="list-style-type: none"> <li>Add On 2 x COM</li> <li>Add On 2 x USB</li> <li>Equipotential Terminal Pin</li> <li>AG Film (for Anti-Reflection)</li> <li>PCIe4 riser card</li> <li>Full HD capture card</li> <li>DC-DC extension cable (2 meter)</li> <li>Cable Clean I.O. Cover</li> <li>White color metal desktop stand with antibacterial treatment</li> </ol>	<ol style="list-style-type: none"> <li>WLAN + Bluetooth</li> <li>5M pixel auto focus webcam module</li> <li>Battery pack</li> <li>PCI-E x1 riser card</li> <li>Capture card</li> <li>2.5" HDD/SSD kit</li> <li>Equipotential terminal pin</li> <li>RFID (13.56MHz)</li> <li>AG film</li> <li>TPM v2.0 module</li> <li>5V1A power jack</li> <li>COM 3,4 / USB5,6</li> <li>Light sensor for LCD auto brightness</li> </ol>	
Customization	<ol style="list-style-type: none"> <li>2M DC Extension Cable</li> <li>Cable Clean IO Cover</li> <li>Anti-bacteria Stand or VESA Wall Mount</li> </ol>	<ol style="list-style-type: none"> <li>Rear IPS4</li> </ol>	<ol style="list-style-type: none"> <li>5MP Auto Focus Webcam</li> <li>FHD panel (not include UL/MDR report)</li> <li>AC DC Power adapter 18V 100W</li> </ol>	<ol style="list-style-type: none"> <li>3MP Webcam</li> </ol>	NA
Customization	<ol style="list-style-type: none"> <li>Temper Glass</li> <li>4K2K UHD display by different configuration / MB with eDP.</li> </ol>	<ol style="list-style-type: none"> <li>Tempered Glass</li> <li>4K2K UHD Panel</li> </ol>	<ol style="list-style-type: none"> <li>Tempered glass</li> <li>Touch panel with anti-glare coating</li> <li>COM ports support 5V1A output</li> <li>GPIO</li> </ol>	<ol style="list-style-type: none"> <li>COM5,6 (New I/O bracket, remove USB5,6)</li> <li>Light sensor for LCD auto-brightness control</li> </ol>	<ol style="list-style-type: none"> <li>Tempered glass</li> <li>15.6" Full HD Diagnostic Panel</li> </ol>



# Slim Medical All In One PC

## Introduction

Slim Medical All In One PC series is designed for limited space medical applications.

With chassis type housing, P-cap multi-touch and Intel® Pentium® N4200 and Celeron® N3350 processor, it targets on rising up remote healthcare, intelligent hospital, point of care at kiosk, doorway and automation factory applications.

## Key Features

- Intel® Celeron® N3350 Processor
- Waterproof Front IP65
- P-Cap Multi-Touch Panel
- Support fTPM from BIOS
- 10.1" 1280 x 800 LCD Panel
- Power Bottom for Easy Control
- Frameless with Aluminum Side Housing
- CE EN60601-1-2 & CE/VCCI/FCC Class B
- Optional PoE Function for HMI Control Device
- Slim Size for Easy Installation on Limited Space



CE EN60601-1-2 & CE/VCCI/FCC Class B



Waterproof Front IP65



Full Flat P-CAP Touch Screen With Easy To Clean Hot Key Design



Chassis Design Ready for Installation



Power over Ethernet for Embedded Applications

## Slim Medical All In One PC

<b>Product Name</b>	<b>WMP-105</b>	
<b>Product Photo</b>		
<b>Main System</b>		
<b>CPU</b>	Intel® Celeron N3350	
<b>Memory</b>	up to 8G	
<b>Chipset</b>	SoC	
<b>OS support</b>	Win7/8/10	
<b>Display</b>		
<b>Size</b>	10.1"	
<b>Resolution</b>	1280 x 800	
<b>Color Numbers</b>	16.7M	
<b>View Angle (H/V)</b>	170/170	
<b>Contrast</b>	800:1	
<b>Brightness (nits)</b>	350	
<b>Touch Panel &amp; IO</b>		
<b>Type</b>	Full Flat P.cap Touch	
<b>USB</b>	USB 3.0 x 2	
<b>COM</b>	RS232/RS422/RS485 X 1	
<b>LAN</b>	RJ45 x 2	
<b>Video Port</b>	HDMI® 1.4a x 1 / VGA x 1	
<b>Storage &amp; Expansion</b>		
<b>Storage</b>	M.2 M-key 2242 SSD, (SATA 6Gb/s)	
<b>Expansion Slot</b>	1 x Mini-PCIe slot, Full Card Size, Signal (Support PCIe1, USB2.0)	
<b>Mechanical &amp; Environmental</b>		
<b>Weight (kg)</b>	1.27	
<b>Operating Temp.</b>	0~50°C	
<b>Cooling</b>	Fanless	
<b>IP rating</b>	IP65 at front side	
<b>Power</b>		
<b>Power Input</b>	DC 9~36V	
<b>Power Adapter/ Battery</b>	External, 63 Watts, Universal 100 ~240V AC in, 12V DC Out	
<b>Certification</b>		
<b>Certification</b>	CE FCC VCCI Class B Canada ICES-003, CE-EMC EN60601-1-2 (V4.0)	
<b>Options &amp; Customization</b>		
<b>Major Options</b>	1. 802.11 ac/a/b/g/n WLAN + Bluetooth Module (not coexist with PoE) (802.11 ac/a/b/g/n WLAN antenna at top, bluetooth 5.0 antenna at I/O side) 2. Operation system: Windows 10 IoT 2019 LTSC (64bit) 3. Ethernet RJ45 male to female right angle adapter x 2 4. TPM 2.0 by module (not coexist with PoE) 5. 128G M.2 SSD storage 6. 8G RAM module	
<b>Customization</b>	1. Panel mount kit 2. White rear cover 3. Webcam 4. PoE function follows IEEE802.3at (30 Watt), supports wake on LAN function (not coexist with wireless, COM port, remove AC-DC power adapter and DC input connector) 5. RFID 6. COM x 2 (total) 7. In wall mount bracket 8. 3G/4G module 9. Car ignition power control	



# Medical Display for Medical Device

## Introduction

Medical Display series is designed for extended medical image from a PC system.

With 8-bit true color diagnostic panel, P-cap multi-touch and optional AG film design, it supports professional medical imaging display inside the hospital. Besides, the unique up to three video out with DVI-D, DP and HDMI-1.4a interface could suit for various medical image format requirement, such as 3D. The optional DICOM part 14 module is provided for X-ray or ultra sound solutions.

## Key Features

- Optional DICOM Part 14
- P-Cap Multi-Touch Panel
- Optional Anti-Glare Film to Avoid Refection
- CE EN60601-1-2 & CE/VCCI/FCC Class B
- Anti-Bacteria White Plastic Housing & Fanless
- Reading Light Suit for Night Time Nurse Round
- Waterproof Front IP65 & IPX1 for Whole System
- Video Output – DVI-D x 1, DP x 1, HDMI 1.4a x 1
- Ranging from 15.6", 21.5" to 23.8" True Color Diagnostic Panel (RGB-8 Bit)



CE EN60601-1-2 & CE/VCCI/FCC Class B



Waterproof Front IP65 & IPX1 for Whole System



Full Flat P-CAP Touch Screen With Easy To Clean Hot Key Design



Anti-Bacteria (MRSA) Housing Defaulted Reduce Bacteria >99%



DICOM Part 14 Compliance



1 X DVI-D, 1 X DP, 1 X HDMI



Reading Light for Nurse Round at Night



Anti-glare film to avoid light fatigue or refection



## Medical Monitor

Product Name	WMD-243	WMD-223	WMD-153
Product Photo			
<b>Display</b>			
Size	23.8"	21.5"	15.6"
Resolution	1920 x 1080 (Full HD)		1366 x 768
Color Numbers	16.7M		
View Angle (H/V)	178/178		170/160
Contrast	3000:1		500:1
Brightness (nits)	250		400
<b>Touch Panel &amp; IO</b>			
Type	Full Flat P.cap Touch		
USB	USB 2.0 input x 1		
Video Port	DP x 1, DVI-D x 1, HDMI® x 1		
<b>Mechanical &amp; Environmental</b>			
Weight (kg)	8.65	6.4	4.6
Operating Temp.	0~45°C	0~40°C	
Cooling	Fanless		
IP rating	IP65 at front side/ IPx1 for whole system		
<b>Power</b>			
Power Input	DC 12V		
Power Adapter/ Battery	AC 100~264V		
<b>Certification</b>			
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) VCCI: 2016-11, Class B (PSU with PSE) FCC: Part 18 Class B ISO 14971		
<b>Options &amp; Customization</b>			
Major Options	1. AG Film		
Customization	1. DICOM Part 14 Module		



# Medical Box PC for Medical Device

## Introduction

Medical series is designed for medical device controller.

With powerful Intel Core processors, it supports compact and efficient medical controller to suit for various medical devices.

Besides, the unique up to three video out with DVI-D, DP and VGA interface could suit for various medical image format requirement.

In the edge AI box PC series, it could support two PCIx slots and one Mini-PCIe for up to 180 power output to fit to the edge computing requirement. The optional doorway 2nd storage design could support easier replace under operation.

## Key Features

- Intel® Core™ Processor
- PCIe Expansion Slots Up to Two
- CE EN60601-1-2 & CE/VCCI/FCC Class B
- Video Output – DVI-D x 1, DP x 1, VGA x 1
- Support Power Adapter Up to 180W (WPC-767 Series)
- Support Rich I.O., Up to 6 USB, 1 X VGA/DVI-D/DP, 2 LAN & 2 COM
- Optional Doorway 2nd Storage (WPC-767 Series)



CE EN60601-1-2 & CE/VCCI/FCC Class B



Up to 6 USB, 1 X VGA/DVI-D/DP, 2 LAN & 2 COM



1 X DVI-D, 1 X DP, 1 X VGA



Anti-Bacteria (MRSA) Housing Defaulted Reduce Bacteria >99%






More Expansion On PCI-E Ports



Customization Service

## Medical Box PC

Product Name	WPC-789-PSI	WPC-767	WPC-767F
Product Photo			
<b>Main System</b>			
CPU	Intel® 12th Generation Intel® Core i9/i7/i5 Processor, 65W Max	Intel® 8th/9th Generation Intel® Core i7/i5/i3, Pentium and Celeron Processor, 35W Max.	Intel® 8th/9th Generation Intel® Core i7/i5/i3, Pentium and Celeron Processor, 65W max.
Memory	DDR4 up to 128G (ECC memory support)	DDR4 up to 32G	
Chipset	Intel® W680 Express	Intel® H310 Express	
OS support	Windows 10 (2019-LTSC) (64bit) / Windows 11 (64bit)		
<b>IO</b>			
USB	Front: 2 x USB 3.2 Gen1 (W/Cover) Rear: 5 x USB 3.2 Gen2 1 x USB 3.2 Gen2x2 Type C Internal: 4 x USB 2.0	4 x USB 3.0 ; 2 x USB 2.0	
COM	2 x RS232/RS422/RS485		
LAN	3 x RJ-45 (LAN1 : Intel® 1225LM Support Vpro)	2 x RJ-45 (LAN 1 : Intel® i219V ; LAN 2 : Intel® i211AT)	
Video Port	1 x DP1.4a, 1 x HDMI® 2.0, 1 x VGA	1 x DP1.2, 1 x DVI-D, 1 x VGA	
<b>Storage &amp; Expansion</b>			
Storage	1 x M.2 (Key M, up to 25110) w/PCIex4 Gen4 for SSD 1 x M.2 (Key M, 2242/2260/2280) w/PCIex4 Gen3 for SSD 1 x 2.5" SATA3 SSD	1 x 2.5" SATA HDD w/Optional Easy Removable Drive Bay 1 x 2.5" SATA HDD 1 x M.2 M.Key 2280 SSD (Conflict with Easy Removable Drive Bay)	
Expansion Slot	1 x M.2 (Key E, 2230) for Wireless 1 x M.2 (Key B, 3042/3052) 2 x PCIe Gen4 Slots (PCIe1/PCIe3:single at x16(PCIe1); dual at x8 (PCIe1) / x8 (PCIe3)) / (PCIe1: Support riser card x8/x8) 2 x PCIe4 (Gen4)	1 x M.2 (Key E, 2230) for Wireless 1 x Mini-PCIe (Full Size) 1 x PCI-Ex16(25W max) 1 x PCI-Ex1(10W max)	1 x M.2 (Key E, 2230) for Wireless 1 x Mini-PCIe (Full Size) 1 x PCI-Ex16(75W max) 1 x PCI-Ex1(10W max)
<b>Mechanical &amp; Environmental</b>			
Weight (kg)	TBD	7.0	5.0
Operating Temp.	0~40°C	0~35°C	0~50°C
Cooling	Fan	Fanless	Fan
<b>Power</b>			
Power Input		DC 12~24V	DC 12~24V
Power Adapter/Battery	AC 100~240V, DC output 24V, 500W	AC input 100 ~240V, DC output 24V 180W	
<b>Certification</b>			
Certification	CE: EN 60601-1-2 (V4.1), EN 60601-1 (V3.2) VCCI: 2016-11, Class B (PSU with PSE -TBD) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.2) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.2) ISO 14971 / IEC62133	CE: EN 60601-1-2:2015 (V4.0) MDR (2017/745) (By Project) VCCI: 2016-11, Class B (Power adapter with PSE) FCC: Part 18 Class B, Canada, ICES-003 UL: ANSI/AAMI ES60601-1:2012 (V3.1) (By Project) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) (By Project) ISO 14971 / IEC62133 (By Project)	
<b>Options &amp; Customization</b>			
Major Options	1. Wifi 6/7 2. 2.5" SSD module 3. 7" 800*480 LCD 4. 7" PCAP touch 5. Equipotential terminal pin 6. Remote power button	1. 802.11 ac/a/b/g/n WLAN + BT module 2. Equipotential terminal pin 3. 2.5" Easy Removable Bay (i-Door) for Second 2.5" HDD 4. PCIe16 AI Core XP4 / XP8 (Intel Movidius 2 x AI Core XM 2280 / 4 x AI Core XM 2280) 5. Power Adapter w/ 2 meter DC Extension Cable	
Customization	NA	1. 65W CPU 2. M.2 M.Key 2280 (Can't Coexist with Easy Removable 2.5" HDD Drive Bay)	1. M.2 M.Key 2280 (Can't Coexist with Easy Removable 2.5" HDD Drive Bay)





## Application



Health Center / OR

Clinical / Surgical Healthcare

Automation Hospital

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