2023 Catalogue

One Step Ahead of Medical AI Innovation

onyx Smart Healthcare an ASUS assoc. co.

TABLE OF CONTENTS

● AI SUPPORT AI SYSTEM

● AI SUPPORT AI SYSTEM

ABOUT ONYX

Onyx Healthcare Inc. is a professional medical IT company in providing trusted, innovative products, customer-centric design services and medical pc solutions. Onyx cooperates closely with our partners to provide comprehensive medical products such as Smart View Medical Stations, Fanless Slim Panel PC, Medical Display, Healthcare Infotainment, Mobile Tablet PC, Medical PC and Mobile Computing Cart in the professional Hospital / Clinical IT market. Our products offer the advantages of filmless and paperless interaction in the hospital environment and all product solutions guarantee reliable quality (EN-60601-1 and UL-60601-1). In 2018/ 2019, Onyx has received notable awards such as the "Taiwan Excellence Award 2018 / 2019" in Venus series and ACCEL series and Mobile Tablet Assistant.

PRODUCT APPLICATION FOCUS: HOSPITAL IT

» **High-Acuity Task Area**
The emergency department, Intensive care, labor and delivery units, neonatal ICUs, operating rooms, post-anesthesia care units, and the radiology department.

» **Clinic/Nursing Station Area**
PACs processing and daily hospital tasks.

» **Outpatient Area**
Patient monitoring and patient home care.

FEATURE PRODUCTS :

» **Medical IT**
Advanced Medical Stations, Medical Grade Slim Panel PCs, Medical Grade Fanless Panel PCs.

» **Medical Platform**
Mobile Nursing Cart, Bedside Infotainment Terminal.

» **Medical IT & Platform Accessory**
Medical Grade Monitors, Medical Mounting Accessories.

OEM/ ODM SERVICE

FULL EXPERIENCE OF MEDICAL CERTIFICATIONS:

No need to worry about the problem of getting documents. With internal and external test laboratories, our experienced LAB engineers with more 10 years make sure your product certified. Onyx can help you bring your market to USA, Europe and China quickly.

- ISO 9001: 2015
- ISO 13485: 2016
- ISO 14001: 2015
- FCC Class A and Class B
- EMC: EN60601-1-2: 2015
- Safety: IEC 60601-1: 2012
- FDA Class II
- CCC: GB 4943 1-2011 / GB 9254-2008 / GB 17625 1-2012
- UL: ANSI / AAMI ES 60601-1: 2015

ONYX HEALTHCARE IS THE FIRST COMPANY WITH EMC 4.0 / SAFE 3.1 READY PRODUCTS

In the European Union, the Date of Withdrawal (DoW) of EN 60601-1:2006 (Safety Edition 3.0) is published as Dec. 31st 2017 and DoW of EN 60601-1-2:2007(EMC Edition 3.0) is published as Dec. 31st 2018. **All devices manufactured and imported into the EU are required to comply with EN 60601-1:2006/A1:2013 (Safety Edition 3.1) after year 2018 and EN 60601-1-2:2015 (EMC Edition 4.0) after year 2019.**

All Onyx products in mass production are compliant to Safety Edition 3.1 and EMC Edition 4.0 and please refer to the following product list.

MEDICAL AI RESEARCH CENTER

ONYX-NTUST MEDICAL AI JOINT RESEARCH CENTER

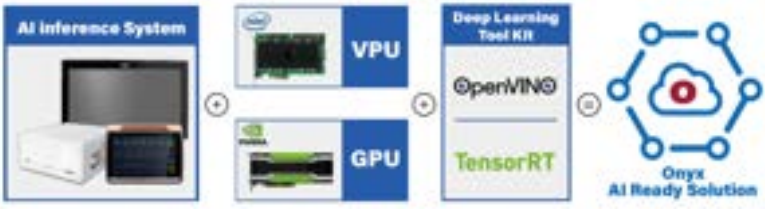
Given the rapid development of AI applications in medicine and healthcare in the twenty-first century, NTUST and Onyx Healthcare established the Onyx Healthcare–NTUST Medical AI Joint Research Center in 2017. The center encompasses work in medical engineering, medical imaging, big data analytics, AR and VR medical training, embedded system development, and others. By combining specialized expertise, NTUST and Onyx Healthcare together provide healthcare clients across the world with one-stop services that integrate medical AI modelling and simulation, software/hardware design, and manufacturing operations. Furthermore, the collaboration helps clients develop successful medical AI products and generally contributes to the medical and healthcare industry overall.Edition 3.1 and EMC Edition 4.0 and please refer to the following product list.

ONYX AI INFERENCE HARDWARE

As technology advances at an every quickening pace, it is artificial Intelligence (AI) that is leading the way forward to a future where we are surrounded by automation and universal connectivity.
Hardware supporting the current AI industrial revolution must also increase its processing capabilities with every new generation to not only keep pace with, but help drive forward technological innovation.
Onyx continues its role as a major technology innovator by creating new products focused on AI Inference at the Edge. Our AI-ready products include devices with support for Nvidia and Intel solutions, medical grade AI boxes, mobile tablets for AI inference, and the first AI all-in-one PC.

Key Features:

- Support NVidia/intel Solution
- Medical grade AI Box
- The first AI All in One PC
- Mobile tablet support AI inference



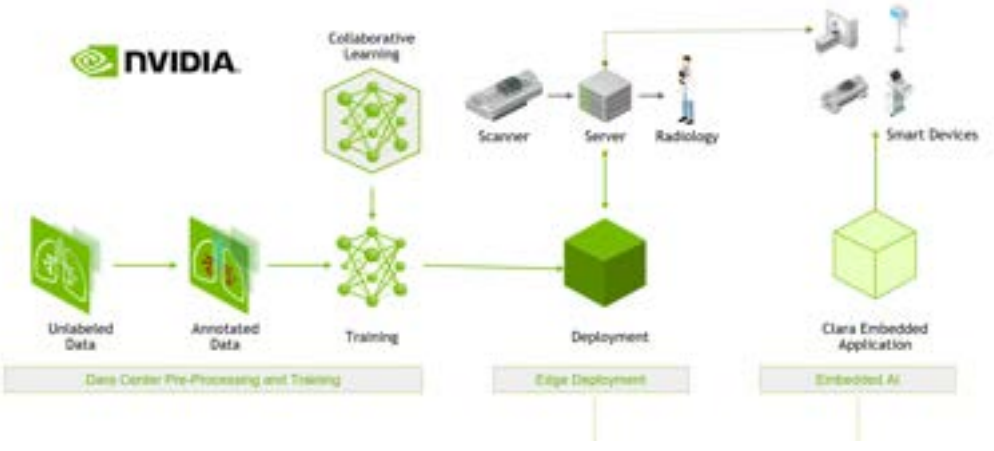
* Note: All specifications are subject to change without notice.

NVIDIA AIoT SOLUTION

Artificial intelligence (AI) is becoming more popular in different applications, Onyx is partnering with NVIDIA to develop new AI medical products. These products highlight Onyx's close relationship with NVIDIA in our combined commitment to create better, and smarter AI medical devices and applications. With our close collaboration in medical AI product development and shared worldwide marketing programs, Onyx and NVIDIA are advancing innovation for medical AI applications.

NVIDIA CLARA

An application framework optimized for healthcare & life sciences developers



NVIDIA has partnered with Onyx Healthcare to take on the challenges of the Medical AI Age. The healthcare industry constantly demands new AI algorithms for computing paradigms to meet the growing need for personalized medicine, next-generation clinics, enhanced quality of care, and breakthroughs in biomedical research to treat disease. With NVIDIA and Onyx Healthcare working together, healthcare institutions can harness the power of artificial intelligence and high-performance computing to define the future of medicine. Onyx Healthcare sets the standard for a professional and reliable medical computer partner that we're honored to be working with.

AI INFERENCE WITH NVIDIA QUADRO

NVIDIA GPU provides an immediate path to greater deep learning performance. GPUs had evolved into highly parallel multi-core systems, allowing very efficient manipulation of large blocks of data. This design is more effective than general-purpose central processing unit (CPUs) for algorithms in situations where processing large blocks of data is done in parallel. Processing large blocks of data is basically what deep learning does.

NVIDIA RTX

HIGH PERFORMANCE AI INFERENCE SYSTEM

ACCELERATE AI CALCULATING

AI EDGE COMPUTING WITH NVIDIA JETSON PLATFORM

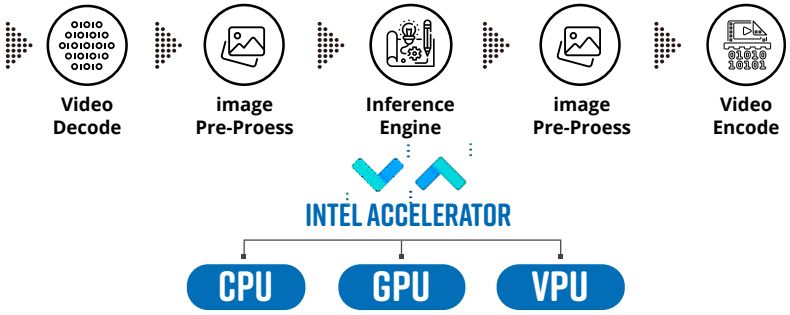
ACCEL-JS series with NVIDIA Jetson platform is a compact, high performance medical AI accelerator especially designed to fit AI market segments. Medical AI developers can utilize the ACCEL-JS series to build containerized AI-skills on the Jetson software stack. With sidecar deployment, aftermarket medical devices can be upgraded to perform AI functions with easy deployment. Furthermore, medical instruments can also have ACCEL-JS500 easily built-in with its compact size, reaching new generations with powerful AI performance. Onyx also provide OEM/ODM service. Help partner perfectly integrate medical device to healthcare field.

NVIDIA JETSON

NVIDIA JETPACK SDK FOR END-TO-END AI APPLICATIONS DEPLOYMENT

MULTIPLE I/O SUPPORT FOR VIDEO TO DO COMPUTING & ANALYSIS

INTEL DISTRIBUTION OF OpenVINO™ TOOLKIT



INTEL AI ACCELERATOR: MOVIDIUS™MYRIAD™X VPU

The Intel® Movidius™ Myriad™ X is a low-power high-performance VPU capable of a wide range of AI applications and is capable of processing speeds up to 105 fps (80 typical) and 1 TOPS as a dedicated neural network accelerator. The Intel® Movidius™ Myriad™ Xis compatible with Intel® Distribution of OpenVINO toolkit, Making it easy to setup and run AI inference software.

Ai Core XP4/XP8
4x/8x Myriad X

Ai Core X
1x Myriad X

OpenVINO™

INTEL DISTRIBUTION OF OPENVINO™TOOLKIT

The Intel® Distribution of OpenVINO™ toolkit helps accelerate deep learning inference across a variety of Intel® processors and accelerators. Rather than a one-size-fits-all solution, Intel offers a powerful portfolio of scalable hardware and software solutions, powered by the Intel® Distribution of OpenVINO™ toolkit, to meet the various performance, power, and price requirements of any use case

ACCEL-VM1000
Dual GPU card Medical AI Edge PC with Intel 12th Gen Core i9 CPU

ACCEL-VM500
Medical Video Management System with 9th Generation Intel Xeon / Core i7 CPU

APPLICATION

MRI, CT Scan , DICOM to PACS Conversion, Organ Transplantation Surgery

MAIN SPECIFICATIONS

Processor	Intel® 12th Generation Core I Processor	Intel® Xeon E-2278GE 3.3GHz / Core i7-9700E 2.6Ghz
System Memory	Supports ECC DDR4 3200 DIMM x 4 up to 128GB	Supports DDR4 2133 DIMM x 4 up to 64GB
Chipset	Intel® W680	Intel® C246
OS Support	Windows® 10 , Linux (optional)	Windows® 10 , Linux (optional)
Storage Disk Drive	2.5" SATA SSD x 2, M.2 2280 NVMe SSD x 1	2.5" SATA x 2, M.2 SSD x 1
TPM	2.0	2.0

I/O

USB	USB 3.2 Gen 2 Type A x 5, USB Gen 2 20G Type C x 1	USB 3.0 x 4, Front USB 2.0 x 2 or USB 3.0 x 2(optional)
Ethernet	GigaLAN x 1, 2.5G LAN x 2	Gigabit LAN x 2
Video Out	HDMI 2.0 x 1, DP 1.4 x 1, VGA	DP x 1, VGA x 1, HDMI x 2
Audio	Line-in x 1, Mic-in x 1, Line-out x 1	Line-in, Mic-in, Line-out
Series Ports	COM x 2	COMx2
Extension area	2 x PCIe Gen4 Slots (PCIE1/PCIE3: single at x16(PCIE1); dual at x8 (PCIE1) / x8 (PCIE3)) with x16 connector PCIe [x 4] x 2 M.2 2230 E Key x 1 M.2 2280 M Key [PCIe x 4] x 1	M.2 E key (2230) for WIFI x1, PCIe [x16] x1 PCIe [x4] x2 , PCIe [x1] x 1
Optional Capture I/O	4Kp60: HDMI 2.0 in FHD:1×HDMI, 1×DVI-I, 1×YPbPr, 1×SDI, 1×CVBS, 1×S-Video	4Kp60: HDMI 2.0 in FHD:1×HDMI, 1×DVI-I, 1×YPbPr, 1×SDI, 1×CVBS, 1×S-Video

MECHANICAL AND ENVIRONMENTAL

Power Consumption	100V to 240V AC Input, 1200W or 700W	100V to 240V AC Input, 500W
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	420 x409 x169 mm	330 x357.4 x168 mm
Packing Size	TBD	500 x 490 x 300 mm
Gross Weight	TBD	8.6 kg
Net Weight	TBD	8 kg
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

* Note: All specifications are subject to change without notice.

ACCEL-VM300

Slim Size Medical AI Computing Platform with Intel® 12th generation Core I Processor

MAIN SPECIFICATIONS

Processor	Intel® 12th generation Core I Processor
System Memory	Supports ECC/Non-ECC DDR4 2133 DIMM x 4 up to64GB
Chipset	Intel® Q670
OS Support	Windows® 10 and 11, Linux (optional)
Storage Disk Driver	2.5" SATA SSD x 1
	M.2 M Key 2280//2260/2242 NVMe x 1
TPM	2.0

I/O

USB	USB 3.2 Gen 2 x 4 , USB 2.0 x 2
Ethernet	2.5 GigaLAN x 2
Video out	HDMI x 1, DP x 2 , VGA x 1
Audio	Mic-in x 1 , Line-out x 1
Serial Ports	COM x 2
Function I/O	Grouding Pin x 1
Power	AC input
Front I/O	USB 3.0 x 2, Power Button x 1
Extension Area	M.2 E Key 2230 x 1 for Wireless module
	PCIe 3.0 x1
	PCIe 4.0[x16] x1

MECHANICAL AND ENVIRONMENTAL

Power Consumption	100V to 240V AC Input
Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)
Storage temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	419 x 355 x 90 mm
Packing Size	TBC
Gross Weight	TBC
Net Weight	TBC
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/ A12:2014 (V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ACCEL-A2203

22" Medical AI Accelerator with NVIDIA Ampere MXM Graphics

MAIN SPECIFICATIONS

Processor	Intel® 12th Gen Core i9-12900TE 16 Cores up to 4.80GHz Intel® 12th Gen Core i7-12700TE 12 Cores up to 4.60GHz Intel® 12th Gen Core i5-12500TE 6 Cores up to 4.30GHz
System Memory	Supports Dual Channel DDR4 3200 SODIMM up to 64GB
Graphics	NVIDIA RTX A1000/A2000/3000/A4500
OS Support	Windows® 10, Windows® 11, Linux®
Storage Disk Driver	2.5" SATA Hard Disk Drive/SSD x 1
Security	Trusted Platform Module 2.0 , Imprivata RFID Reader (optional)
Wireless Communication	802.11 ac(optional), 802.11 ax (optional),Bluetooth 5 (optional)

DISPLAY

Size	22" LCD
Resolution	1920 x 1080
Luminance	250 nits
Back Light Life Time	50,000 Hours
Touch Screen	Capacitive Multi-Touch

I/O

USB	USB 3.2 Gen2 x2, USB 2.0 x2
Serial Port	RS-232 x 2
Ethernet	2.5 Gigabit LAN x2
Video Out	Display Port 1.4 x2, HDMI 2.0b x1
Audio	Mic-in, Line-out

MECHANICAL AND ENVIRONMENTAL

Power Requirement	AC 100~240V
Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)
Storage temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Degree of Protection	IP65 in the front ; IPX1 in the back
Dimension	542 x 355 x 67mm
Packing Size	711 x 195 x 503mm
Gross Weight	14 kg (30.86 lb)
Net Weight	7.5 kg(16.5 lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ACCEL-JS1000

NVIDIA Jetson AGX Orin platform for Medical AI imaging application

ACCEL-JS800

NVIDIA Jetson Orin NX platform for Medical AI imaging application

MAIN SPECIFICATIONS

AI Engine	NVIDIA Jetson AGX Orin	NVIDIA Jetson AGX Orin NX
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2+ 4MB L3 (ACCEL-JS1000-N1) 12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2+ 6MB L3(ACCEL-JS1000-N2)	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 (ACCEL-JS800-N1) 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3(ACCEL-JS800-N2)
System Memory	32GB or 64GB 256-bit LPDDR5 204.8 GB/s	8GB or 16GB 128-bit LPDDR5 102.4 GB/s
Graphics	1792-core NVIDIA Ampere GPU with 56 Tensor Cores (ACCEL-JS1000-N1)	1024-core NVIDIA Ampere GPU with 32 Tensor Cores
	2048-core NVIDIA Ampere GPU with 64 Tensor Cores (ACCEL-JS1000-N2)	
OS Support	Linux 20.04 with Jetpack 5.0	Linux 20.04 with Jetpack 5.0
Security	TPM 2.0	TPM 2.0
Speaker	2W x Speaer x 2	2W x Speaer x 2

I/O

USB	USB Type C x 2 for USB 3.2 USB Type A x 2 for USB 2.0	USB Type C x 2 for USB 3.2 USB Type A x 2 for USB 2.0
Ethernet	GigaLAN x 1	Gigabit LAN x 1
Video Out	HDMI 2.0 x 1 or 12G SDI x1	HDMI 2.0 x 1 or 12G SDI x 1
Video Input	3G SDI or 12G SDI,	3G SDI or 12G SDI,
	3G SDI(Max resolution up to 1920×1080p@60fps)	3G SDI(Max resolution up to 1920×1080p@60fps)
	12G SDI(Max resolution up to 4096×2160@60fps)	12G SDI(Max resolution up to 4096×2160@60fps)
Audio	Mic-in x 1 , Line out x 1	Mic-in x 1 , Line out x 1
Series Ports	RS232 x 1	RS232 x 1
Function Port	Power Button with Power LED indicator x 1 Reset Button x 1 ,Recovery Button x 1, Grounding pin x 1	Power Button with Power LED indicator x 1 Reset Button x 1 ,Recovery Button x 1, Grounding pin x 1
DC in	12V DC Jack	12V DC Jack
Wireless Communication	802.11a/b/g/n/ac/ax.w/BT5.2 (Optional)	802.11a/b/g/n/ac/ax.w/BT5.2 (Optional)
Expansion I/O	PCIe [x8] x 1(Optional)	N/A

MECHANICAL AND ENVIRONMENTAL

Power	Medical adapter 12V 120W	Medical adapter 12V 65W
Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	TBC	TBC
Packing Size	TBC	TBC
Gross Weight	TBC	TBC
Net Weight	TBC	TBC
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B, Part 15 Class B, UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ACCEL-JS500/JS500i

NVIDIA Jetson AGX Xavier or AGX Xavier Industrial platform

MAIN SPECIFICATIONS

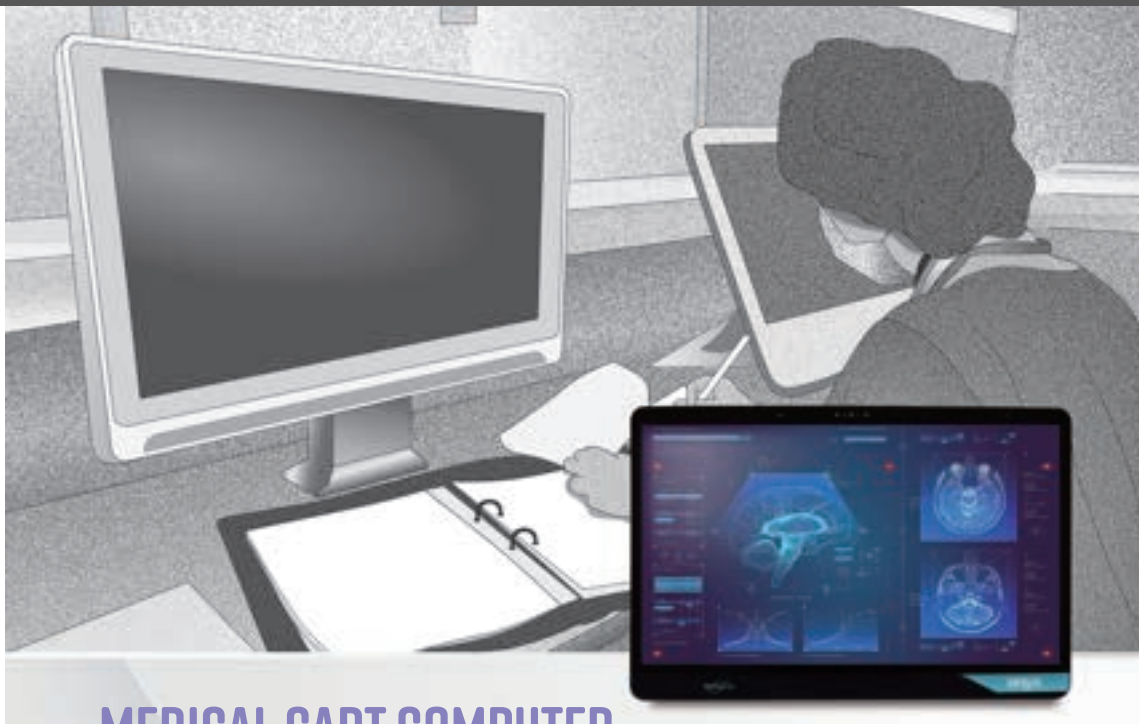
AI Engine	NVIDIA Jetson AGX Xaiver	NVIDIA Jetson AGX Xaiver Industrial
CPU	8-Core ARM v8.2 64bit CPU, 8MB L2 + 4MB L3	
System Memory	32GB 256-bit LPDDR4 w/ECC	
Graphics	512 Core Volta GPU with Tensor Cores	
OS Support	Linux with Jetpack OS	
Storage	64GB eMMC Onboard	
	Micro SD card Slot	
	M.2 M Key 2280 (Only for ACCEL-JS500-N1-A1-0010 and ACCELJS500-N1-A2-0010)	M.2 M Key 2280 (Only for ACCEL-JS500i-N1-A1-0010 and ACCELJS500i-N1-A2-0010)
Security	TPM 2.0	
Speaker	2W x Speaer x 2	

I/O

USB	USB Type C x 2 for USB 3.1,USB Type A x 1 for USB 3.0, USB Type A x 1 for USB 2.0
Ethernet	Gigabit LAN x 1
Video Out	HDMI 2.0 x 1 , Display Port 1.4 x 1
Video input (Optional)	3G SDI x 1 or 12G SDI x 1
	3G SDI (Max resolution up to 1920×1080p@60fps)
	12G SDI (Max resolution up to 4096×2160@60fps)
Audio	Mic-in x 1 , Line out x 1
COM	RS232 x 1
Function Port	Reset Button x 1 ,Recovery Button x 1
DC-in	12V DC Jack
Wireless Communication	802.11a/b/g/n/ac.w/BT5.0 (Optional)
LED Indicator	Power LED x 1

MECHANICAL AND ENVIRONMENTAL

Power	Medical adapter 12V 84W
Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	184(W) x 145(L) x 66mm(H)
Packing Size	290(W) x 225(L) x 198mm(H)
Gross Weight	2.33 kg
Net Weight	1.675 kg



MEDICAL CART COMPUTER

The ONYX Venus series has developed a dual hot-swap batteries feature to enable the nurse to easily replace(change) a battery while the system is operating without having to turn the power off.
Dual battery design are able to achieve very long running time.

Lightweight design with Magnesium alloy rear cover provides high strength and great heat dissipation.
The front bezel is completely sealed and has a rating of IP65 waterproof with edge-toedge glass. And it also has an IPX1 rating with back cover that provide the great protection.

Key Features:

- Highest level of medical safety protection, EMC4.0 / Safety3.1
- Built-in dual battery to provide Max 260Wh power for standing 18 hours operating.
- Support running as 24/7 by swapping batteries.
- With magnesium alloy rear cover provides high strength , light weight ,and great heat dissipation.
- ORION, Hospital IT Management software Package
- Hi-speed recharge, flexible mounting type as cart mount, wall mount, table stand

Dual hot-swap batteries

EMC 4.0 / Safety 3.1

24/7 fully running

ORION

Battery charger

Venus-244
22" Medical Cart Computer

Venus-224
22" Medical Cart Computer

SYSTEM

Processer	Intel® 11th generation Core i7 1165G7 / i5 1135G7 Intel® Pentium Gold 7505
System Memory	DDR4 up to 64GB
OS support	Microsoft® Windows 11 Microsoft® Windows 10 (64bit) Ubuntu 20.04 LTS IGEL (thin client solution)
Security	Smart Card Reader (optional) Imprivata RFID reader (optional) Barcode reader (optional)
Wireless Communication	802.11 ac/a/b/g/n + BT 4.1 (optional) Wifi6 + BT 5.2 (optional)

DISPLAY

Size	23.8”	21.5”
Resolution	FHD 1920 x 1080	FHD 1920 x 1080
Brightness	250 nits	250 nits
Touch Screen	PCT	PCT

I/O

USB	Rear I/O: USB 3.0 x 2, USB 2.0 x 2 Front I/O : USB 3.0 x2	Rear I/O: USB 3.0 x 2, USB 2.0 x 2 Front I/O : USB 3.0 x2
Video Out	HDMI out x1	HDMI out x1
COM	COM port x2	COM port x2
Audio	Combo Audio port x 1	Combo Audio port x 1
Ethernet	Gigabit LAN x 2	Gigabit LAN x 2
DC-in	19V DC-in x 1	19V DC-in x 1

MECHANICAL AND ENVIRONMENTAL

Dimension	560(L) x 78.4(W) x 373(H) mm	510(L) x 78.4(W) x 346(H) mm
Net Weight	7kg	6kg
Packing Size	730(L) x 240(W) x 550(H) mm	730(L) x 240(W) x 550(H) mm
Gross Weight	11kg (24.3lbs)	10kg (26.5lbs)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

Venus-243
24" Medical Cart Computer

Venus-223
22" Medical Cart Computer

Venus-193
19" Medical Cart Computer

SYSTEM

Processer	Intel® Skylake Dual-Core i5 / i7	Intel® Skylake Dual-Core i5 / i7	Intel® Skylake Dual-Core i5/i7 / Celeron 3955U
System Memory	DDR4 up to 32GB	DDR4 up to 32GB	DDR4 up to 32G
OS support	Microsoft® Windows 8.1 Microsoft® Windows 10 Ubuntu 18.04 LTS IGEL (thin client solution)	Microsoft® Windows 8.1 Microsoft® Windows 10 Ubuntu 18.04 LTS IGEL (thin client solution)	Microsoft® Windows 8.1 Microsoft® Windows 10 Ubuntu 18.04 LTS IGEL (thin client solution)
Security	TPM 2.0 (Trusted Platform Module), Smart Card Reader, RFID ISO 15693/14443A (optional)	TPM 2.0 (Trusted Platform Module), Smart Card Reader, RFID ISO 15693/14443A (optional)	TPM2.0,Smart Card Reader, RFID ISO 15693/14443A (optional)
Wireless Communication	802.11 a/b/g/n/ac + BT (optional)	802.11 a/b/g/n/ac + BT (optional)	802.11 ac/a/b/g/n + BT 4.0 (optional)

DISPLAY

Size	23.8" VA panel	22" VA panel	19" panel
Resolution	1920 x 1080	1920 x 1080	1280 x 1024
Brightness	250 nits	250 nits	250 nits
Touch Screen	PCT	Resistive Touch ,PCT(optional)	Resistive Touch

I/O

USB	Rear I/O: USB 3.0 x 2, USB 2.0 x 2 Side I/O : USB 3.0 x2	Rear I/O: USB 3.0 x 2, USB 2.0 x 2 Side I/O : USB 3.0 x2	Rear I/O :USB 3.0 x2, USB 2.0 x2 Side I/O : USB 3.0 x2
Video Out	HDMI out x1	HDMI 1.4 x1	HDMI 1.4 x1
COM	COM port x1	COM port x1	COM port x2
Audio	Combo Audio port x 1	Combo Audio port x 1	Combo audio port x1
Security	Kensington slot	Kensington slot	Kensington slot
Ethernet	Gigabit LAN x 1	Gigabit LAN x 1	Gigabit LAN x2
DC-in	24V DC-in x 1	24V DC-in x 1	24V DC-in x 1

MECHANICAL AND ENVIRONMENTAL

Dimension	607(L) x 78(W) x 404(H) mm	542(L) x 78(W) x 362(H) mm	429(L) x 78(W) x 384(H) mm
Net Weight	8kg (17.6lbs)	7kg (15.4lbs)	5.5kg (12.13lbs)
Packing Size	730(L) x 240(W) x 550(H) mm	645(L) x 210(W) x 513(H) mm	540(L) x 205(W) x 503(H) mm
Gross Weight	12kg (26.5lbs)	11kg (24.3lbs)	9kg (19.84lbs)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

* Note: All specifications are subject to change without notice.

Venus-243-AMD
24" Medical Cart Computer

Venus-223-AMD
22" Medical Cart Computer

SYSTEM

Processer	AMD Ryzen™ V1202B / V1605B	AMD Ryzen™ V1202B / V1605B
System Memory	Up to DDR4 32GB	Up to DDR4 32GB
OS support	Microsoft® Windows 10 IOT Enterprise (64bit) Ubuntu 18.04 LTS	Microsoft® Windows 10 IOT Enterprise (64bit) Ubuntu 18.04 LTS
Security	TPM2.0 SmartCard Reader RFID ISO 15693 / 14443A (optional)	TPM2.0 SmartCard Reader RFID (optional)
Wireless Communication	802.11 ac/a/b/g/n + BT 4.0 (optional)	802.11 ac/a/b/g/n + BT 4.0 (optional)

DISPLAY

Size	23.8" VA panel	22" VA panel
Resolution	1920 x 1080	1920 x 1080
Brightness	250 nits	250 nits
Touch Screen	PCT	Resistive Touch ,PCT(optional)

I/O

USB	Rear I/O : USB 3.0 x2, USB 2.0 x2 Side I/O : USB 3.0 x2	Rear I/O : USB 3.0 x2, USB 2.0 x2 Side I/O : USB 3.0 x2
Video Out	HDMI	HDMI
COM	COM port x2	COM port x2
Audio	Combo Audio port x1	Combo Audio port x1
Security	Kensington slot	Kensington slot
Ethernet	Gigabit LAN x 2	Gigabit LAN x 2
DC-in	24V DC-in x1	24V DC-in x1

MECHANICAL AND ENVIRONMENTAL

Dimension	607(L) x 78(W) x 404(H) mm	542(L) x 78(W) x 362(H) mm
Net Weight	8kg (17.6lbs)	7kg (15.4lbs)
Packing Size	730(L) x 240(W) x 550(H) mm	645(L) x 210(W) x 513(H) mm
Gross Weight	12kg (26.5lbs)	11kg (24.3lbs)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

If you need more details, please contact to sales@onyx-healthcare.com

SELF-POWER CART COMPUTER ACCESSORY SELECTION

OPM-P02C
2 -slot battery charger

OPM-P01C
6 -slot battery charger

MAIN SPECIFICATION

Charge Time	3S4P / 12 Cell Li-ion battery	3S3P / 9 Cell Li-ion battery
Input Power	10.8V	10.95V
IO interface	12060mAh / 130.2Wh	8550mAh / 93.62Wh
Certification	2 year	1 year

MECHANICAL AND ENVIRONMENTAL

Color	ABS + PC	ABS + PC
Dimension	White	White
Net Weight	137(L) x 79(W) x 46 (H) mm	122(L) x 79(W) x 50 (H) mm
Packing Size	690g (1.52 lbs)	504g (1.11 lbs)
Gross Weight	234(L) x 180(W) x 76(H) mm	220(L) x 180(W) x 80(H) mm
Operating Temp	1.7kg (3.75 lbs)	1.3kg (2.87 lbs)
Storage Temp	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)

If you need more details, please contact to sales@onyx-healthcare.com

* Note: All specifications are subject to change without notice.

OPM-P03T
2 XXL Battery Kit. Li-ion.
10.8V. 12060mAh

OPM-P02T
2 XL Battery Kit. Li-ion.
10.95V. 8550mAh

MAIN SPECIFICATION

Battery Type	3S4P / 12 Cell Li-ion battery	3S3P / 9 Cell Li-ion battery
Battery Voltage	10.8V	10.9V
Battery Capacity	12060mAh / 130.2Wh	8400mAh / 91.56Wh
Warranty	2 year	1 year
Charging time	4.5hrs with UPower Pro-series	3.5hrs with UPower Pro-series
Safety	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)
Compatible	Venus all series, UPower all series	Venus all series, UPower all series
Certification	UL-2054, IEC-62133-1	UL-2054, IEC-62133-1

MECHANICAL AND ENVIRONMENTAL

Architecture	ABS + PC	ABS + PC
Color	White	White
Dimension	137(L) x 79(W) x 46 (H) mm	122(L) x 79(W) x 50 (H) mm
Net Weight	690g (1.52 lbs)	504g (1.11 lbs)
Packing Size	234(L) x 180(W) x 76(H) mm	220(L) x 180(W) x 80(H) mm
Gross Weight	1.7kg (3.75 lbs)	1.3kg (2.87 lbs)
Operating Temp	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temp	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)

BATTERY LED INDICATOR

One LED Flashing	0%~5% capacity	0%~5% capacity
One LED Lighting	5%~20% capacity	5%~20% capacity
Two LED Lighting	20%~40% capacity	20%~40% capacity
Three LED Lighting	40%~60% capacity	40%~60% capacity
Four LED Lighting	60%~80% capacity	60%~80% capacity
Five LED Lighting	80%~100% capacity	80%~100% capacity

*Please see the user guide for more details.

If you need more details, please contact to sales@onyx-healthcare.com

MEDICAL POWER PANEL PC

The ONYX Venus series has developed a dual hot-swap batteries feature to enable the nurse to easily replace(change) a battery while the system is operating without having to turn the power off.
Dual battery design are able to achieve very long running time.
Onyx has developed an medical power panel PC that provides 24/7 non-stop service and offers true mobility. miniVenus features dual swappable batteries system and universal mounting slots.
The battery system allow users to replace one of the batteries without turning the computer off .
Also, the dual batteries design supply a very long running time and short charging time.
Lightweight design provides high strength and great heat dissipation, and it has mounting slots that will fit any medical cart.

Key Features:

- Intel® Core™ processor
- Dual swappable batteries provide continuous power for 24/7 non-stop operation
- Highest level of medical safety protection, EMC4.0 / Safety3.1
- Fanless design, low risk of cross-infection
- ORION, Hospital IT Management Software Package
- Standard VESA 75/100 mount fits all medical carts

Intel® Core™ Platform for Better Performance

Swappable Battery design

Quiet, Clean & Easy to Maintain

TPM

Long-term product life support

* Note: All specifications are subject to change without notice.

Venus-173
17" Medical Power Panel PC

Venus-153
15" Medical Power Panel PC

SYSTEM

Processer	Intel® Skylake Dual-Core i5	Intel® Skylake Dual-Core i5 /Celeron 3955U
System Memory	DDR4 up to 16GB	DDR4 up to 16GB
OS support	Microsoft® Windows 7 Microsoft® Windows 8.1 Microsoft® Windows 10 Ubuntu 18.04 LTS IGEL (thin client solution)	Microsoft® Windows 7 Microsoft® Windows 8.1 Microsoft® Windows 10 Ubuntu 18.04 LTS IGEL (thin client solution)
Security	TPM 2.0 (Trusted Platform Module), RFID ISO 15693/14443A (optional)	TPM 2.0 (Trusted Platform Module), RFID ISO 15693/14443A (optional)
Wireless Communication	802.11 ac/a/b/g/n + BT (optional)	802.11 ac/a/b/g/n + BT (optional)

DISPLAY

Size	17"	15.6"
Resolution	1280 x 1024	1920 x 1080
Brightness	250 nits	220 nits
Touch Screen	Resistive Touch	Project Capacitive Touch /Resistive Touch

IO

USB	USB 3.0 x2 , USB 2.0 x2	USB 3.0 x2 , USB 2.0 x2
Video Out	HDMI 1.4 x1	HDMI x1
COM	COM port x 1	COM port x 1
Ethernet	Gigabit LAN x 2	Gigabit LAN x 2
DC-in	12V DC-in x1	12V DC-in x1

MECHANICAL AND ENVIRONMENTAL

Dimension	384(L) x57(W) x 345(H) mm	392(L) x 43(W) x 265(H) mm
Net Weight	4.5kg	2.7kg
Packing Size	510(L) x 200(W) x 480(H) mm	520(L) x 190(W) x 400(H) mm
Gross Weight	5.6kg	4.7kg
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

MOBILE COMPUTER ACCESSORY SELECTION

Venus-123
12" Medical Power Panel PC

SYSTEM

Processer	Intel® Skylake Dual-Core i5 / Celeron 3955U
System Memory	DDR4 up to 16GB
OS support	Microsoft® Windows 7 (32/64bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 10 (64bit) Ubuntu 18.04 LTS IGEL (thin client solution)
Security	TPM 2.0 (Trusted Platform Module), RFID ISO 15693/14443A (optional)
Wireless Communication	802.11 ac/a/b/g/n + BT (optional)

DISPLAY

Size	11.6"
Resolution	1366 x 768
Brightness	250 nits
Touch Screen	Project Capacitive Touch / Resistive Touch

IO

USB	USB 3.0 x2 , USB 2.0 x2
Video Out	HDMI out x 1
COM	COM port x 1
Ethernet	Gigabit LAN x 2
DC-in	12V DC-in x1

MECHANICAL AND ENVIRONMENTAL

Dimension	300(L) x 43(W) x 205(H) mm
Net Weight	1.9kg
Packing Size	420(L) x 185(W) x 345(H) mm
Gross Weight	2.6kg
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

OPM-P05T
Battery Packs (2x)

BATTERY PACK

Battery Type	6 Cell Lithium Battery
Battery Capacity	4545 mAh / 33.6 Wh
Battery Output Voltage	7.4V
Battery Charge Time	3 hrs for 85%, 3.5hrs for 100%
Battery Run Time	3hrs *For more details, please see the user guide

ORDER INFORMATION

- OPM-P05T-A4
  Battery Kits (2x) 2S3P/7.2V for Venus-123/153/173

UP-M62
Venus-123/153/173
6-slots Charger

ORDER INFORMATION

- UP-M62-A1-1010
  6-slots Charger for Venus-123/153/173

If you need more details, please contact to sales@onyx-healthcare.com

* Note: All specifications are subject to change without notice.

MEDICAL POWER BANK

The genius of the UPower system is in its unique, groundbreaking design. Upower gives you the capability of providing endless power with an innovative dual hot swappable battery architecture that ensures your device remains powered even while you are replacing a battery.

Key Features:

- External DC output (2/4 slot only)
- Selected voltage
  (12V / 19V / 24V) (2 slot : 12 /19 /24V ; 4 slot 12/15/19/24V)
- Non-stop, hot swappable batteries architecture
- Software (ORION) remote monitor
- Capable of charging 2/4 batteries simultaneously.
- 2/4 Independent LED indicators, clearly reveal recharge status
- High-speed recharge and over charge protection

Infinite Power

Swappable Battery

User Selected Voltage

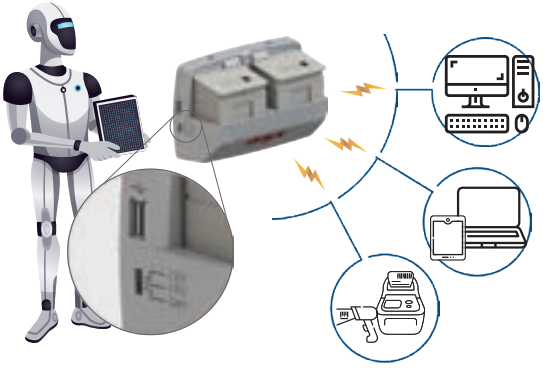
IPX1 Compliant

ORION Management

UPower

SWAPPABLE BATTERIES

Our UPower give you the capability of providing endless power with its unique swappable battery architecture. You will never again be in danger of losing power when it is most critically needed.

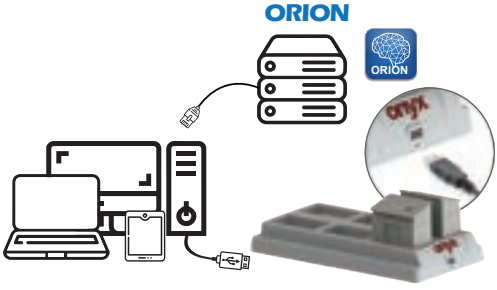


USER SELECTED VOLTAGE

Since electronic devices operate with varying voltage requirements, we created a multi-voltage power bank that allows users to personally select the proper voltage setting. Users can select from 12, 19, or 24 volts based on their needs.

ORION MANAGEMENT

These “smart” power banks can be managed with our new ORION device management software solution that intelligently monitors the status of all the batteries connected to the system.



VITAL SIGN APPLICATION

Hospital intensive care units (ICU) specialize in providing intensive care for patients suffering from severe injuries and life-threatening illness. Patients in intensive care units must be monitored constantly not only by highly trained hospital staff, but also with specialized medical equipment to make sure they remain in stable condition while recovering from serious medical emergencies, or surgery.

With UPower, battery powered medical devices will never again be in danger of losing power when it is most critically needed—and that’s a thought that doctors, patients, and all ICU staff can find reassuring and comforting.

UPower Pro-43
4-Slot Hot Swappable Battery
Medical Power Bank

UPower Pro-22
2-Slot Swappable Battery

MAIN SPECIFICATION

DC Output Power	12/15/19/24V 90W +65W +25W *Check user manual for more detail info	12/19/24V 90W *Check user manual for more detail info
Battery Charge Time	3.5 hrs for 85%, 4 hrs for 100% for XL battery	2.5 hrs for 85%, 3 hrs for 100% for std battery
Input Power	24V/250W adapter	24V/150W adapter
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

MECHANICAL AND ENVIRONMENTAL

Architecture	ABS + PC	ABS + PC
Color	White	White
Dimension	265(L) x 169(W) x 210(H) mm	191(L) x 64(W) x 117(H) mm
Net Weight	2kg (4.41 lbs)	0.67kg (1.47 lbs)
Packing Size	365(L) x 280(W) x 395(H) mm	390(L) x 290(W) x 110(H) mm
Gross Weight	3kg (6.61 lbs)	2kg (4.41 lbs)
Operating Temperature	0°C ~ 30°C(32°F ~ 86°F)	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Storage Humidity	10%~95%@35°C, non-condensing	10%~95%@35°C, non-condensing

BATTERY LED INDICATOR

Blue Lighting	Full Charge (AC mode)	Full Charge (AC mode)
Blue Flashing	Charging (AC mode)	Charging (AC mode)
Green Lighting	Capacity 40%~100% (Battery Mode)	Capacity 40%~100% (Battery Mode)
Orange Lighting	Capacity 21%~39% (Battery Mode)	Capacity 21%~39% (Battery Mode)
Purple Lighting	Capacity 0%~20% (Battery Mode)	Capacity 0%~20% (Battery Mode)
Green-Purple Flashing	Charging error	Charging error

POWER SUPPLY SPECIFICATION

Input Voltage	100-240V AC @50-60 Hz	100-240V AC @50-60 Hz
Output Power	24V / 10.42A, 250W max	24V / 6.25A, 150W max

BATTERY PACK (OPTIONAL)

Battery Type	9/12 Cell Lithium-ion battery	6 /9/12 Cell Lithium-ion battery
Battery Capacity	8550 / 12060 mAh	5700 / 8550 / 12060 mAh
Output Voltage	10.95V / 10.8V	10.8V / 10.95V / 10.8V

OPM-P03T
2 XXL Battery Kit. Li-ion.
10.8V. 12060mAh

OPM-P02T
2 XL Battery Kit. Li-ion.
10.95V. 8550mAh

MAIN SPECIFICATION

Battery Type	3S4P / 12 Cell Li-ion battery	3S4P / 9 Cell Li-ion battery
Battery Voltage	10.8V	10.9V
Battery Capacity	12060mAh	8400mAh
Warranty	2 year	1 year
Charging time	4.5hrs with UPower Pro-series	3.5hrs with UPower Pro-series
Safety	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)
Compatible	Venus all series, UPower all series	Venus all series, UPower all series
Certification	UL, CE,IEC-62133-1	UL, CE, IEC-60950-1, IEC-62133-1

MECHANICAL AND ENVIRONMENTAL

Architecture	ABS + PC	ABS + PC
Color	White	White
Dimension	137(L) x 79(W) x 48 (H) mm	122(L) x 79(W) x 50 (H) mm
Net Weight	690kg (1.52 lbs)	510kg (1.12 lbs)
Packing Size	234(L) x 180(W) x 76(H) mm	220(L) x 180(W) x 80(H) mm
Gross Weight	1.7kg (3.75 lbs)	1.3kg (2.87 lbs)
Operating Temp	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temp	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Storage Humidity	10%~95%@35°C, non-condensing	10%~95%@35°C, non-condensing

BATTERY LED INDICATOR

One LED Flashing	0%~5% capacity	0%~5% capacity
One LED Lighting	5%~20% capacity	5%~20% capacity
Two LED Lighting	20%~40% capacity	20%~40% capacity
Three LED Lighting	40%~60% capacity	40%~60% capacity
Four LED Lighting	60%~80% capacity	60%~80% capacity
Five LED Lighting	80%~100% capacity	80%~100% capacity

*Please see the user guide for more details.

ORION-BATTERY MANAGEMENT SYSTEM

ORION is a complete software solution that controls every part of your Onyx device infrastructure from the server, to the software manager and client devices. This system works the same way as the email servers we use every day to communicate. Each ORION system has a single server that connects to nursing carts (clients) that push their information to the server (similar to sending anemail).

Key Features:

- Everything Remotely
- Break Up the Whole Into Parts
- To Improve the Quality

Battery Diagnostics

Real-time Remote Monitoring

Group Settings

Remote Update / Installation

User-friendly Interface

BATTERY DIAGNOSTICS

With potentially thousands of batteries in use in a single hospital, ORION can monitor them all with diagnostic tools that alert users of any battery-related errors.

REAL-TIME REMOTE MONITORING

Real-time remote monitoring provides quick data feedback to help IT managers diagnoseand fix system problems.

GROUP SETTINGS

Device settings can be managed and saved by groups so that each departmentin a facility can have custom-managed devices.

REMOTE UPDATE / INSTALLATION

System software / firmware installation and updates can also be performed remotely saving valuable time and resources.

USER-FRIENDLY INTERFACE

ORION's user-friendly graphical interface conveniently organizes important data in a waythat lets you quickly and easily review systemwide performance.

AUTOMATED TASK SCHEDULING

With automated task scheduling, ORION takes care of less important repetitive tasks so you can focus on more important priorities.

CUSTOMIZABLE DASHBOARD

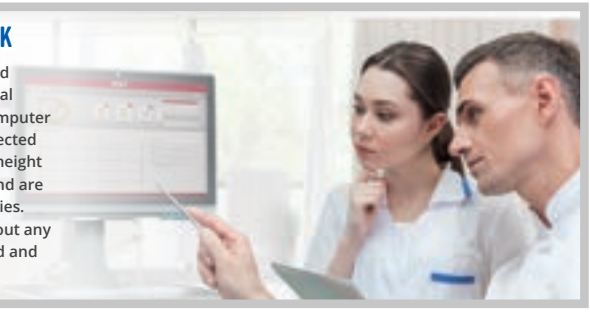
All IT managers have their own preferences for how to perform their duties.
ORION's customizable dashboard gives IT managers the freedom to set operational parameters to their own liking to maximize efficiency.

E-MAIL REPORTING

ORION includes an integrated e-mail client for regularly scheduled event reporting.

SUCCESSFUL STORY – NHS IN UK

The Trust went live with their EPR called e-Care on 30th April 2016. Parity Medical were the chosen supplier of mobile computer carts. The Parity Infinity carts were selected after trialling as they are light weight, height adjustable, ergonomic, easy to clean and are powered 24/7 by hot swappable batteries.
It was a big project that went live without any hiccups. Phase 2 has now been enabled and will be phased in throughout the year.



ORION Remote

Hospital IT ManagementSoftware Package

CORE FUNCTION

Battery Diagnostics	✓
Friendly UI	✓
Remote Backup/Recovery	✓
Remote Update/Installation	✓
E-Mail Reporting	✓
Automated Task Scheduling	✓
Group Settings	✓
Real-time Remote Monitoring	✓
Customizable Dashboard	✓

ORDERING INFORMATION

ORION-A01-V2	ORION Air permission (per client)

HARDWARE REQUIREMENT

ORION Server

CPU	1.6GHz or faster
RAM	1GB
Storage	20MB per client for one month record 10G for 500 clients for one month record
OS	Windows 7, Windows 8.1, Windows 10

ORION Manager

CPU	1.6GHz or faster
RAM	1GB
Display	DirectX 9-capable video card running at 1024 x 768 or higher display resolution
OS	Windows 7, Windows 8.1, Windows 10
Other	.Net Framework 4.0 above

MOBILE MEDICAL TABLET

Onyx Mobile Medical Assistant tablets are especially designed to streamline data exchange for EMS and hospitals. With rugged features, high brightness LCD and high performance CPU, these tablets can be operated in harsh environments while delivering superb performance and a crystal clear image. Onyx Mobile Medical Assistant tablets help eliminate medical paperwork by automating EMS and hospital workflows allowing paramedics and nurses to instantly access and document patient records.

Key Features:

- Effortless data collection and documentation with significant error reduction
- Seamless integration of medical devices
- Medical & ambulance dual certifications
- Continuous power for 24/7 non-stop operation
- Rugged design for outdoor and indoor use
- Reduce hospital and ambulance service TOC

Light weight & compact size

OS support for Windows

IP54

Swappable Battery design

* Note: All specifications are subject to change without notice.

MD116/ MD116I
12” Rugged EMS Tablet

MD101
10.1” Portable
Medical Gateway

APPLICATION

EMS, Vital Sign Automation, Mobile Point of Care

MAIN SPECIFICATION

Processor	Intel® Apollo Lake Processor	Intel® Kaby Lake U Processor	Intel® Cherry Trail QC Processor Z8350 1.44GHz	
System Memory	DDR3L SODIMM x1, Default 4GB (Up to 8GB)	DDR4 SO-DIMM x1, Default 4 GB (Up to 32 GB)	4GB	
OS Support	Microsoft® Windows 10 IOT		Microsoft® Windows 10 IOT	Android6.0 (optional)
Storage Disk Drive	M.2 Interface x1, Default 64GB i max 512GB		128GB eMMC NAND	

DISPLAY

Size/ Type	11.6” 16:9 Wide Screen LED Panel	10.1” 16:10 Wide Screen LED Panel
Resolution	FHD 1920 x 1080	1920x 1200
PCT Multi-Touch Screen	10 points Touch	10 points Touch

I/O

USB	USB 3.0 (Type-A) x1, USB 2.0 (Type-A) x1	USB 3.0 (Type-A) x1
Ethernet	Gigabit LAN x1	N/A
Video Out	N/A	Micro HDMI x1
Audio	N/A	3.5mm Audio Combo Jack x1
DC-In	DC-In Jack x1	DC-In Jack x1
Docking	Docking Connector x1	N/A

MECHANICAL AND ENVIRONMENT

Mounting	VESA 75 via docking station		VESA 75 via cradle
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 35°C (32°F ~ 95°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)		-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	312(W) x 239(H) x 37(D) mm		260(W) x 186(H) x 23(D) mm
Packing Size	400 x 345 x160 mm		310 x 220 x 110 mm
Gross Weight	3 kg (6.6 lb)		2 kg (4.4 lb)
Net Weight	Approx. 1.45~1.8 kg (3.2 lb~3.97 lb)		Approx. 1 kg (2.2 lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) EN 300 328 (V2.1.1), EN 301 893 (V2.1.1) FCC: Part 18 Class B, Part 15 C/E UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)		CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) EN 300 328 (V2.1.1), EN 301 893 (V2.1.1) FCC: Part 18 Class B, Part 15 C/E UL: ANSI/AAMI ES60601-1:2012 (V3.1) (optional) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)(optional)

MOBILE MEDICAL ASSISTANT ACCESSORY SELECTION-MD116/MD116I ACCESSORY

Vehicle Dock
OPM-T016-A3

VESA Cradle
OPM-T021-A1

Office Dock
OPM-T022-A1

Battery Charger
UP-M62-A1-1010

OPTIONAL ACCESSORIES

Part Number	OPM-T016-A3	OPM-T021-A1	OPM-T022-A1	UP-M62-A1-1010
Description	Vehicle Dock	VESA Cradle	Office Dock	Battery Charger
Input Power	12V	N/A	12V	24V
Installations	VESA 75	VESA 75	Stationary	Stationary

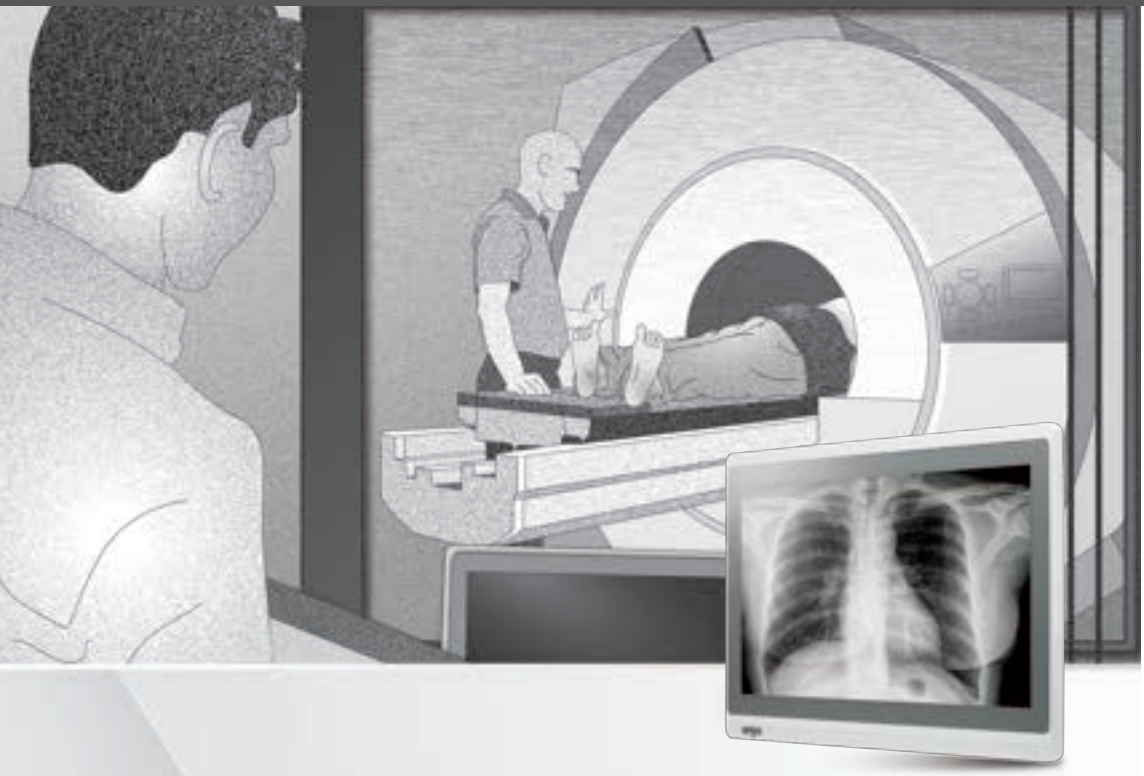
I/O

IO	2x USB 2.0 Type-A 1x RJ45 1x Line Out 1x Phoenix Port 1x DC In Jack	N/A	2x USB 2.0 Type-A 1x RJ45 1x RS-232 1x DC-In 1x HDMI (optional) 1x DP (optional)	1x Micro USB (Client) 1x DC-In
LED Indicator	N/A	N/A	Steady Green: Connection LED Off: Disconnection	Flickering Blue: Battery Charging Steady Blue: Battery Fully Charged Flickering Purple Green: Error

MECHANICAL AND ENVIRONMENT

Dimensions	236.89 x293.03 x 88.22 mm	206.69 x 196.64 x 87.8mm	354 x 117 x 78.2mm	245.95 x 124.64 x 143.65mm
Weight	800g	395g	1060g	860g
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 35°C (32°F ~ 95°F)	0°C ~ 35°C (32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)

* Note: All specifications are subject to change without notice.



PROFESSIONAL MEDICAL ALL IN ONE PC

Zeus is the mighty symbol of the gods which are strong and powerful. In the name of Zeus, to fulfill the demanding requirements of the OR, ICU, ER and Reading Room, Onyx has spent two years developing the new Zeus Series, the Smart View Medical Station. Zeus gives doctors crystal clear imaging when viewing PACS, ENDO, or just EMR.

Key Features:

- Smart View Design with Worldwide Patents
- 24/22/19 inch Medical Grade Panel
- Multi-touch PCT screen / 5-wire Resistive Touch Screen
- Flat and edgeless ID design gives doctors the best-in-market user interaction experience
- Patented smart multi function keys covers up to 10 features for reading light, speaker volume, LCD brightness, etc.

Intel® 7th Gen. i7 Platform for Critical Applications

Super 3.0 for USB, SATA and PCI-e

DICOM Compliance Display

MIS with Remote Control Power

Triple Isolation Protection to Patient

Backup Battery for Uninterruptible Power Supply

ZEUS-248
24" Fanless Smart View 7th Gen.
Core i7 Medical Station

ZEUS-228
22" Fanless Smart View 7th
Gen. Core i7 Medical Station

APPLICATION

EMR/EHR Solution, DICOM to PACS Conversion, Organ Transplantation Surgery

MAIN SPECIFICATIONS

Processor	Intel 7th Generation Core i7-7600U 3.9GHz Dual Core
System Memory	DDR4 SODIMM up to 32GB
Chipset	N/A
OS Support	Windows® 10, Linux®
Remote Management	Intel Active Management Technology
Expansion Interface	PCI Express[x4] x1, PCI Express[x1] (optional)
Storage Disk Drive	2.5" SATA HDD/SSD x1, M.2 SSD x1, Slim DVD-RW Drive x1(optional)
Security	Trusted Platform Module, Smart Card Reader(optional), RFID Reader(optional)
Wireless Communication	802.11a/b/g/n/ac(optional), Bluetooth 4.1{optional)
Speaker	5W x 2
Power Requirement	DC 12~24V, AC 100~240V , 25wh Backup Battery (optional)

DISPLAY

Size/ Type	24" LCD	22" LCD
Max. Resolution	1920 x 1080	1920 x 1080
Luminance (cd/m2) (TYP)	250 nits	250 nits
Viewing Angle	178(H)/178(V)	178(H)/178(V)
Contrast Ratio	3000:1	1000:1
Touch Screen	Capacitive Multi-Touch	Capacitive Multi-Touch

I/O

USB	USB 3.0 x4, USB 3.1 x2(side I/O), Isolated USB 2.0 x1(optional)
Serial Ports	Isolated RS-232 x2(optional)
Ethernet	Isolated Gigabit LAN x2
Video Out	Display Port x1(optional)
Audio	Mic (optional) / Line out (optional)

MECHANICAL AND ENVIRONMENTAL

Power Consumption	Full loading:60 watts	Full loading:55 watts
Operating Temperature	0˚C to 40˚C (32˚F~104˚F)	
Dimension	600 x 415 x 65 mm	546 x 352 x 66 mm
Packing Size	790 x 220 x 550 mm	750 x 220 x 490 mm
Gross Weight	14 kg (30.86 lb)	12 kg (26.45 lb)
Net Weight	9.2kg (20.28lb)	8.0Kg(17.6lb)

ZEUS-198

19" Fanless Smart View 7th Gen. Core i7 Medical Station

APPLICATION

EMR/HER Solution, DICOM to PACS Conversion, Organ Transplantation Surgery

MAIN SPECIFICATIONS

Processor	Intel 7th Generation Core i7-7600U 3.9GHz Dual Core
System Memory	DDR4 SODIMM up to 32GB
Chipset	N/A
OS Support	Windows® 10, Linux®
Remote Management	Intel Active Management Technology
Expansion Interface	PCI Express[x4] x1, PCI Express[x1] (optional)
Storage Disk Drive	2.5" SATA HDD/SSD x1, M.2 SSD x1, Slim DVD-RW Drive x1(optional)
Security	Trusted Platform Module, Smart Card Reader(optional), RFID Reader(optional)
Wireless Communication	802.11a/b/g/n/ac(optional), Bluetooth 4.1(optional)
Speaker	5W x 2
Power Requirement	DC 12~24V , 25wh Backup Battery (optional)

DISPLAY

Size/ Type	19" LCD
Max. Resolution	1280 x 1024
Luminance (cd/m2) (TYP)	250 nits
Viewing Angle	170(H)/160(V)
Contrast Ratio	1000:1
Touch Screen	Capacitive Multi-Touch

I/O

USB	USB 3.0 x4, USB 3.1 x2(side I/O), Isolated USB 2.0 x1(optional)
Serial Ports	Isolated RS-232 x2(optional)
Ethernet	Isolated Gigabit LAN x2
Video Out	Display Port x1(optional)
Audio	Mic (optional) / Line out (optional)

MECHANICAL AND ENVIRONMENTAL

Power Consumption	Full loading:55 watts
Operating Temperature	0˚C to 40˚C (32˚F~104˚F)
Dimension	450 x 388 x 66 mm
Packing Size	640 x 220 x 520 mm
Gross Weight	11 kg (24.25 lb)
Net Weight	7kg (15.43lb)

MEDICAL PC & MONITOR FOR DIGITAL OR

In a digital operating room, important information and images such as patient vital signs, surgical images, and xray images need to be displayed all at once. With the latest technology, ACCEL series offers large screen ultra high definition 4K resolution display, Intel Xeon / Core i7 core processor, capacitive multi-touch screen and multiple video inputs to improve display quality and work efficiency.

Key Features:

- 32-inch 4K UHD High Resolution & High Brightness Display
- 24-inch FHD High Brighness Display
- Intel® Xeon / Core i7 Platform
- Triple PCI Express Slot for High End Graphics, Fiber LAN and UHD Video Capture
- Enhance functional for Medical Imaging
- IP Certified, Antimicrobial Surface Coatin and Fanless

32/27-inch 4K UHD High Resolution & High Brightness Display

Intel® Quad Core Xeon Platform

PCI Express [x16] Slot for High End Graphics

Enhance functional for Medical Imaging

IP54 Certified, Antimicrobial Surface Coatin and Fanless

* Note: All specifications are subject to change without notice.

ACCEL-A3201

32" 4K UHD 6th Generation Xeon / Core i7 Medial All in One PC for AI Inference

ACCEL-A2701

27" 4K UHD 6th Generation Xeon / Core i7 Medial All in One PC for AI Inference

ACCEL-A2401

24" FHD 9th Generation Xeon / Core i7 Medial All in One PC for AI Inference

APPLICATION

MRI, CT Scan , DICOM to PACS Conversion, Organ Transplantation Surgery

MAIN SPECIFICATIONS

Processor	Intel® 6th Generation Xeon E3-1505M v5 2.8GHz Quad Core / Core i7-6820QE 2.8GHz Quad Core	Intel® 6th Generation Xeon E3-1505M v5 2.8GHz Quad Core / Core i7-6820QE 2.8GHz Quad Core	Intel® 9th Generation Xeon E-2276ML 2.0GHz Six Core / Core i7-9850HL 1.9GHz Six Core
System Memory	ECC (for Xeon) / Non-ECC (for Core i7) DDR4 SODIMM up to 32GB	ECC (for Xeon) / Non-ECC (for Core i7) DDR4 SODIMM up to 32GB	ECC (for Xeon) / Non-ECC (for Core i7) DDR4 SODIMM up to 64GB
Chipset	CM236 (for Xeon) / QM170(for Core i7)	CM236 (for Xeon) / QM170(for Core i7)	CM246 (for Xeon) / QM370(for Core i7)
OS Support	Windows® 7, Windows® 10, Linux®	Windows® 7, Windows® 10, Linux®	Windows® 10, Windows® 11,Linux®
Expansion Interface	PCI Express[x16] x1, PCI Express[x4] x1, PCI Express[x1] x1)	PCI Express[x16] x1, PCI Express[x4] x1, PCI Express[x1] x1)	PCI Express[x16] x1, PCI Express[x4] x1, PCI Express[x1] x1)
Storage Disk Drive	2.5" SATA Hard Disk Drive/Solid State Disk Drive x 2	2.5" SATA Hard Disk Drive/Solid State Disk Drive x 2	2.5" SATA Hard Disk Drive/Solid State Disk Drive x2
Security	Trusted Platform Module 2.0	Trusted Platform Module 2.0	Trusted Platform Module 2.0
Wireless Communication	802.11ac, Bluetooth 5	802.11ac, Bluetooth 5	802.11ac, Bluetooth 5
Speaker	5W x 2	5W x 2	5W x 2

DISPLAY

Size/ Type	32" LCD	27" LCD	24" LCD
Max. Resolution	3840 x 2160	3840 x 2160	1920 x 1080
Luminance (cd/m2) (TYP)	350 nits	250 nits	400 nits
Viewing Angle	178(H)/178(V)	178(H)/178(V)	178(H)/178(V)
Contrast Ratio	1000:1	1000:1	1000:1
Touch Screen	Capacitive Multi-Touch	Capacitive Multi-Touch	Capacitive Multi-Touch

I/O

USB	USB 3.0 x4	USB 3.0 x4	USB 3.0 x4
Serial Ports	Isolated RS-232 x2(optional)	Isolated RS-232 x2(optional)	Isolated RS-232 x2(optional)
Ethernet	Isolated Gigabit LAN x2	Isolated Gigabit LAN x2	Isolated Gigabit LAN x2
Video Out	Display Port 1.4 x1	Display Port 1.4 x1	Display Port 1.4 x1
Audio	Mic(optional), Line out(optional)	Mic(optional), Line out(optional)	Mic(optional), Line out(optional)

MECHANICAL AND ENVIRONMENTAL

Power Consumption	Full loading : 90 Watts	Full loading : 90 Watts	Full loading : 75 Watts
Operating Temperature	0˚C to 35˚C (32˚F~95˚F)		
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)		
Dimension	778 x 478 x 102 mm	676 x 429 x 102 mm	595 x 387 x 95 mm
Packing Size	910 x 618 x 220 mm	820 x 575 x 230 mm	764 x 240 x 534 mm
Gross Weight	21.5 kg (47.3 lb)	16.0 kg (35.3 lb)	13 kg (28.7 lb)
Net Weight	18.5 kg (40.78 lb)	13.5 kg (29.76 lb)	11 Kg (24.3 lb)

NVIDIA RTX

intel

ACCEL-VM500R

Medical Video Management System with
9th Generation Intel Xeon / Core i7 CPU

APPLICATION

MRI, CT Scan , DICOM to PACS Conversion, Organ Transplantation Surgery

MAIN SPECIFICATIONS

Processor	Intel® 9th generation Core I/Xeon Processor
System Memory	Supports ECC/Non-ECC DDR4 2133 DIMM x 4 up to 64GB
Chipset	Intel® C246A
OS Support	Windows® 10 , Windows® 11 , Linux (optional)
Storage Disk Drive	2.5" SATA SSD x 2, M.2 2280 M Key SSD x 1 (NVMe or SATA SSD)
TPM	2.0
Speaker (Optional)	Built in Speaker
CD DVD(Optional)	SATA DVD+/-RW White Color

I/O

USB	Rear USB 3.1 Gen 1 x 4
	Front USB 2.0 or USB 3.0(Optonal)
	Rear USB 3.1 Gen 2 x 6(Optional)
Ethernet	Gigabit LAN x 2
Audio	Line-in x 1, Mic-in x 1 and Line-out x 1
Series Ports	RS232 x 2
Extension area	M.2 E Key 2230 x 1 for Wireless module PCIe 3.0[x16] x1, PCIe 3.0 [x4] x2, PCIe 3.0 [x1] x 1
Optional Capture I/O	4Kp60: HDMI 2.0 in FHD: HDMI x1, DVI-I x 1, YPbPr x1, SDI x1, CVBS x 1, S-Video x 1

MECHANICAL AND ENVIRONMENTAL

Power Consumption	100V to 240V AC Input, 500W
Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	330 x357.4 x168 mm
Packing Size	500 x 490 x 300 mm
Gross Weight	8.6 kg
Net Weight	8 kg
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ACCEL-VM100
HDMI/DP over IP Transceiver with USB Extension for Digital OR

ACCEL-VS100
HDMI/VGA Live Video Streamer with Recording

INTERFACES

Input Port	1 x HDMI (Type-A) 1 x DisplayPort	1 x HDMI (Type-A) 1 x VGA (HD-15) 1 x Unbalanced Stereo (3.5mm)
Output Port	1 x HDMI (Type-A)	1 x HDMI (Type-A)
Bi-directional Port	1 x 10GbE LAN (SFP+)	N/A
Pass-through Port	1x Unbalanced Stereo (3.5mm) 1 x IR Extender (3.5mm) 1 x IR Blaster (3.5mm) 1 x RS-232 (3-pin Terminal Block) 1 x Ethernet (RJ-45) 3 x USB (Type-A)	1 x LAN (RJ-45) 1 x RS-232 (DE-9) 1 x MicroSD slot
Service Port	1 x USB (Mini-B)	1 x USB (Type-A)

VIDEO

HDMI Compliance	HDMI 2.0 (DVI 1.0)	2.0
HDCP Compliance	2.2	2.2
Input Signal Types	HDMI 2.0 / 4K@60, HDR10 / DisplayPort 1.4 HBR2	4K@60 8bit YUV 4:4:4
Output Signal Type	N/A	4K@60 8bit YUV 4:4:4

RESOLUTIONS

Maximum Input	HDMI - 4096×2160p@60, 2560×1600p@60RB	HDMI - 4096×2160p@60, 2560×1600p@60RB
	HDMI - 4096×2160p@60, 2560×1600p@60RB	
	HDMI - 4096×2160p@60, 2560×1600p@60RB	HDMI - 4096×2160p@60, 2560×1600p@60RB
Maximum Output	HDMI - 4096×2160p@60, 2560×1600p@60RB	HDMI - 4096×2160p@60, 2560×1600p@60RB
	Streaming - 4096×2160p@60, 2560×1600p@60RB	H.264 Stream - 1080p@60

AUDIO

Digital Formats	HDMI - 8CH LPCM, Bitstream, HD Bitstream DisplayPort- 8CH LPCM, Bitstream, HD Bitstream	HDMI, Unbalanced Stereo, 2CH LPCM
Analog Formats	Unbalanced 2 Channel	N/A
Line Level	Frequency Response: < ±0.5dB (20Hz to 20kHz) THD: < 0.02% (20Hz to 20kHz) S/N Ratio: > 80dB (1kHz with 0dBFS) Crosstalk: < −80dB (10kHz, Vin=0dBFS)	N/A

POWER

Power Supply	12V/3A (Locking)	5V/2.6A
Power Consumption	25W (Full load)	9.57W (Full load)

ENCLOSURE

Chassis Material	Metal (Steel)	Metal (Steel)
Chassis Color	White	White
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class A	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class A

ACCEL-VM200

AV over IP Master Controller

INTERFACES

Output Port	1 x HDMI
Control I/O	1 x IR Extender (3.5mm) 1 x RS-232 (3-pin Terminal Block) 8 x Trigger (10-pin Terminal Block) 1 x USB (Type-A) 2 x LAN (RJ-45)
Reserved Port	1 x RS-232 (5-pin Terminal Block)

VIDEO

Maximum Output	HDMI

RESOLUTIONS

Maximum Output	1920 x 1080p@60

POWER

Power Supply	5V/2.6A DC (Locking)
Power Consumption	2.99W

ENCLOSURE

Chassis Material	Metal (Steel)
Chassis Color	White
Dimensions (W×H×D)	231.5 × 25 ×108 mm (Case Only) 231.5 x 25 x 117 mm (All Inclusive)
Weight	250g
Packing Size	280 x 180 x 71 mm
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class A

SLIM MEDICAL ALL IN ONE PC

The Slim Medical Panel PC is designed to meet the requirements of the best Return on Investment for medical users. With an ultra slim chassis and Intel® fanless low power processor, the slim series gives users a real green solution. Green in money, Green in energy saving, Green in space. The Slim size extends the flexibility in various hospital applications such as mobile nursing station, wall-mount diagnosis panel, pharmacy automation and hospital administration automation.

Key Features:

- Green Operation
- Flexible Power Input
- High Speed Wireless Data Transmission
- Processing in Compact Size
- Small to large LCD Choices
- Quiet, Clean & Easy Maintenance

Small to Large LCD Choices

Quiet, Clean & Easy Maintenance

Green & Compact Size for Operation

Dual Antennas with Best WLAN performance

SMA-1733
17" Fanless Slim Medical All in One PC

SMA-1533
15.6" Fanless Slim Medical All in One PC

APPLICATION

Telemedicine, Medical IT, Medical Device Controller

MAIN SPECIFICATIONS

Processor	Intel® Celeron N6210 / Atom x6211E Dual Core Processor	
System Memory	Supports DDR4 SODIMM up to 16GB (optional In-Band ECC support)	
Expansion Interface	M.2 2230(E-key) x 1, Proprietary PCIe[x1] x 1	
Storage Disk Drive	M.2 2242 SATA SSD x1	
OS Support	Windows® 10, Windows® 11, Linux®	
Security	RFID Reader (optional)	
Wireless Communication	802.11ax/ac(optional), Bluetooth 5.1 /5.3 (optional)	
Speaker	3W x 2	3W x 2
Power Requirement	DC 12V / Power over Ethernet (optional)	

DISPLAY

Size/ Type	17" LCD	15.6" LCD
Max. Resolution	1280 x 1024	1920 x 1080
Luminance (cd/m2) (TYP)	350 nits	300 nits
Viewing Angle	170˚(H)/160˚(V)	178˚(H)/178˚(V)
Contrast Ratio	1000:1	1000:1
Touch Screen	5-Wire Resistive	Capacitive Multi-Touch

I/O

USB	USB 3.1 Gen 1 x4
Serial Ports	RS-232 x 1
Ethernet	Gigabit LAN x2 (isolated x1 + non-isolated x1)
Video Out	HDMI 2.0b x 1

MECHANICAL AND ENVIRONMENTAL

Power Consumption	TBD	TBD
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~60°C(-4°F ~ 140°F)	-20°C ~60°C(-4°F ~ 140°F)
Mounting	VESA 75/100 mm	VESA 75/100 mm
Dimension	384 x 338 x 69 mm	398 x 265 x 47 mm
Packing Size	630 x 250 x 640 mm	721 x 224 x 464 mm
Gross Weight	9kg (19.84 lb)	6.5 kg (14.33lb)
Net Weight	5.6kg(12.32lb)	2.8kg(6.2lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B / UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	

SMA-1233
11.6" Fanless Slim Medical All in One PC

SMA-1033
11.6" Fanless Slim Medical All in One PC

APPLICATION

Telemedicine, Medical IT, Medical Device Controller

MAIN SPECIFICATIONS

Processor	Intel® Celeron N6210 / Atom x6211E Dual Core Processor
System Memory	Supports DDR4 3200 SODIMM up to 16GB (In-Band ECC with Atom x6211E)
Expansion Interface	M.2 2230(E-key) x 1, Proprietary PCIe[x1] x 1
Storage Disk Drive	M.2 2242 SATA SSD x1
OS Support	Windows® 10, Windows® 11, Linux®
Security	RFID Reader (optional)
Wireless Communication	802.11ac/ax(optional) + Bluetooth 5.1/5.3(optional)
Speaker	2W x 2
Power Requirement	DC 12V / Power over Ethernet(optional)

DISPLAY

Size/ Type	11.6" LCD	10.1" LCD
Max. Resolution	1366 x 768 / 1920 x 1080	1280 x 800
Luminance (cd/m2) (TYP)	250 nits / 300nits	400nits
Viewing Angle	90˚(H)/60˚(V) / 178˚(H)/178˚(V)	178˚(H)/178˚(V)
Contrast Ratio	500:1 / 800:1	800:1
Touch Screen	Capacitive Multi-Touch	

I/O

USB	USB 3.1 Gen 1 x4
Serial Ports	RS-232 x 1
Ethernet	Gigabit LAN x2 (isolated x1 + non-isolated x1)
Video Out	HDMI 2.0b x 1

MECHANICAL AND ENVIRONMENTAL

Power Consumption	TBD	TBD
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~60°C(-4°F ~ 140°F)	-20°C ~60°C(-4°F ~ 140°F)
Mounting	VESA 75/100 mm	VESA 75/100 mm
Dimension	300 x 205 x 47 mm	262 x 191 x 45 mm
Packing Size	540 x 230 x 370 mm	402 x 190 x 335 mm
Gross Weight	4 kg (8.8lb)	3.7kg (8.82lb)
Net Weight	1.5kg(3.3lb)	1.2kg (3.3lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B / UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	

POWERFUL MEDICAL ALL IN ONE PC

Medical AIO is a highly cost effective solution. Intel Core i7 processor, up to 64GB DDR4 and capacitive multi-touch screen enhance the efficiency of hospital applications. Fanless design keeps environment quiet and reduces the effort in cleaning. With one PCI Express[x4] slot, any standard PCI Express[x1/x4] card such as isolated RS-232 card and video capture card can be installed to enhance capability.

Key Features:

- 19"/22"/24"LCD with capacitive multi-touch
- Trusted Platform Module and Smart Card / RFID Reader for Security Enhancement
- One PC1 Express[x1] or [x4] Slot
- Fanless Design for Quiet and Easy Maintenance
- Reading Light

Intel® Core Platform for Critical Applications

Super 3.0 for USB, SATA and PCI-e

Quiet, Clean & Easy Maintenance

Triple Isolation Protection to Patient

Dual Antennas with Best WLAN performance

* Note: All specifications are subject to change without notice.

MATE2-2410
24" Fanless 9th Generation Core i7 Powerful Medial All in One PC

MATE2-2210
22" Fanless 9th Generation Core i7 Powerful Medial All in One PC

SYSTEM

Processer	Intel® 9th Generation Core i7-9700TE 8 Cores 3.8GHz Intel® 9th Generation Core i5-9500TE 6 Cores 3.6GHz
System Memory	Supports Dual Channel DDR4 2666 SODIMMup to 64GB
OS support	Windows® 10,Windows® 11, Linux®
Expansion Interface	PCI Express[x4]/[x1] (optional)
Security	Trusted Platform Module , Imprivata RFID Reader (optional))
Wireless Communication	802.11 ac/ax (optional),Bluetooth 5 (optional)

DISPLAY

Size	24" LCD	22" LCD
Resolution	1920 x 1080	1920 x 1080
Brightness	250 nits	250 nits
Touch Screen	Capacitive Multi-Touch	Capacitive Multi-Touch

I/O

USB	USB 3.2 Gen 1 x 4 , Isolated USB 2.0 Full Speed x4 (optional)	
Serial Port	RS-232 x 2	RS-232 x 2 or x1 (when backup battery is installed)
Ethernet	Gigabit LAN x 2	Gigabit LAN x 2
Video Out	Display Port 1.2 x1, HDMI 1.4b x 1 (Supports resolution up to 3840 x 2160)	Display Port 1.2 x1, HDMI 1.4b x 1 (Supports resolution up to 3840 x 2160)
Audio	Mic-in, Line-out	Mic-in, Line-out

MECHANICAL AND ENVIRONMENTAL

Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Mounting VESA	75/100 mm	75/100 mm
Degree of Protection	IP65 in the front ; IP54 in the back	IP65 in the front ; IP54 in the back
Dimension	586 x 382 x 67 mm	542 x 355 x 67 mm
Packing Size	755 x 195 x 528mm	711 x 195 x 503mm
Gross Weight	14 kg (30.86 lb)	11 kg (24.25 lb)
Net Weight	8.7 kg (19.2lb)	7.5 kg (16.5lb)
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

MATE-1903

19" Fanless 6th Generation Core i7 Powerful Medical All in One PC

SYSTEM

Processer	Intel® 6th Generation Core i7 / i5 / i3 Processor
System Memory	Supports Dual Channel DDR4 2133 SODIMM up to 32GB
OS support	Windows® 7, Windows® 10, Linux®
Expansion Interface	PCI Express[x1] (optional)
Security	Trusted Platform Module, RFID Reader (optional) Smart Card Reader x 1 (optional)
Wireless Communication	802.11ac, Bluetooth 5.1 (optional)

DISPLAY

Size	19" LCD
Resolution	1280 x 1024
Brightness	250 nits
Touch Screen	Capactive Multi-Touch Screen

I/O

USB	USB 3.0 x 4, USB 2.0 x 2
Serial Port	RS-232 x 2
Ethernet	Gigabit LAN x 2
Video Out	Display Port x1, HDMI x1 (Supports resolution up to 3840 x 2160)
Audio	Mic-in, Line-out

MECHANICAL AND ENVIRONMENTAL

Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Mounting VESA	75/100 mm
Degree of Protection	IP65 in the front ; IP54 in the back
Dimension	450 x 388 x 66 mm
Packing Size	640 x 220 x 520 mm
Gross Weight	11 kg (24.25 lb)
Net Weight	7.5kg (16.53b)
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

MEDICA DISPLAY FOR MEDICAL DEVICE

Are you still looking for suitable displays for all kinds of requirement in hospital?
Do you still wonder where the solutions are?

The Onyx slim display provides full product functions and complete sizes of LCD Monitor to fulfill the requirements of various hospital applications. Analog and digital ports allow user to choice their solutions by situation. Digital port prevents signal distortion during transmission while viewing medical images. All displays have touchscreen function and high definition Graphic quality.

Key Features:

- Versatile LCD size
- Photo Sensor achieved Stable and Consistent Image
- CE/ FCC, Class B Passed 18, EN60601-1:2006

Small to Large LCD Display Choices

Fabulous Touch experience

Green and Low power consumption

Long term product life time support

Flexibility for customization request to medical equipment

MEDDP-632
32" 4K-UHD Medical LCD Monitor

MEDDP-632F
24" Slim Medical Display

MAIN SPECIFICATION

Size	32"	32"
Resolution	3840x2160 pixels	Full HD 1920 x 1080
Max. Colors	1.07B Colors	16.7M
White Luminance (Typ.)	350 nits	400 nits
Viewing Angle (CR=10)(Typ.)	178˚(H)/178˚(V)	178˚(H)/178˚(V)
Contrast Ratio (Typ.)	1000:1	4000:1
Touch Screen	Projected Capacitive Multi Touch Screen	

SYSTEM

OS Support	Windows® 7, Windows® 10

IO

Input Signal	Audio-in x 1,Dual DVI x 1,DP 1.2 x 1, VGA x 1,3G SDI x 1,HDMI 1.4 x 1,HDMI 2.0 x 1	VGA x 1,HDMI 1.4 x 1
Output Signal	Audio-out x DP 1.2x1 3G SDI x1 for Touch Screen	N/A
USB Port	USB 2.0 x 1	USB 2.0 x 1 for Touch Screen
Serial Port	RS-232 x 1	N/A
GPIO	RJ-11 x 1	N/A
Speaker	Built in 5W speaker x 2	Built in 5W speaker x 2

MECHANICAL AND ENVIRONMENT

Operating Temperature	0°C to 35°C	
Storage Temperature	-20°C to 60 °C	
Storage Humidity	10% to 90% RH, noncondensing	
VESA	100mm x 200mm and 200mm x 200mm	
IP Rating	Front IP65	
Dimension	799 x 478 x 63.7 mm	799 x 478 x 63.7 mm
Packing Size	980x260x700mm	980x260x700mm
Gross Weight	13.2 Kg	12.3 Kg
Net Weight	11.6 Kg	11.1 Kg
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B

MEDDP-627
27" Slim Medical Display

MEDDP-624
24" Slim Medical Display

MEDDP-722
22" Slim Medical Display

MAIN SPECIFICATION

Size	27"	23.8"	21.5"
Resolution	Full HD 1920 x 1080	Full HD 1920 x 1080	Full HD 1920 x 1080
Max. Colors	16.7M	16.7M	16.7M
White Luminance (Typ.)	350 nits	400 nits	250 nits
Viewing Angle (CR=10)(Typ.)	178˚(H)/178˚(V)	178˚(H)/178˚(V)	178˚(H)/178˚(V)
Contrast Ratio (Typ.)	3000:1	1000:1	3000:1
Touch Screen	Projective capacitive touch screen (optional)		

SYSTEM

OS Support	Windows®XP, Window® 7, Window® 10

IO

Audio	Audio-in x 1	Audio-in x 1	Audio-in x 1
Serial Port	USB x 1 for touch controller	USB x 1 for touch controller	USB x 1 for touch controller
Signal	DVI x 1, HDMI x 1, DP x 1	DVI x 1, HDMI x 1, DP x 1	DVI x 1, HDMI x 1, VGA x 1
Speaker	2W speaker x 2 on back side	2W speaker x 2 on back side	5W speaker x 2 on back side

MECHANICAL AND ENVIRONMENT

Power Requirement	DC12V / 5A power input	DC12V / 5A power input	DC12V / 5A power input
Operating Temperature	5°C ~ 40°C(41°F ~ 104°F)	5°C ~ 40°C(41°F ~ 104°F)	5°C ~ 40°C(41°F ~ 104°F)
Storage Temperature	-10°C ~ 60°C(14°F ~ 140°F)	-10°C ~ 60°C(14°F ~ 140°F)	-10°C ~ 60°C(14°F ~ 140°F)
Storage Humidity	10%~90%@35°C, non-condensing	10%~90%@35°C, non-condensing	10%~90%@35°C, non-condensing
Dimension	647.8 x 388.7 x 63.4 mm	576 x 344.3 x 62.1 mm	546 x 352 x 55.1 mm
Packing Size	730 x 300 x 560 mm	645 x 545 x 295 mm	570 x 478 x 260 mm
Gross Weight	10.4kg (22.93lb)	8.6kg (19lb)	8.4kg (18.51lb)
Net Weight	6.6kg (14.55lb)	6.4kg (14.11lb)	5.7kg (12.57lb)
Certifications	CE: EN 60601-1-2:2015(V4.0) , EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B,	CE: EN 60601-1-2:2015(V4.0) , EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B,	CE: EN 60601-1-2:2015(V4.0) , EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B, UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

MEDDP-622
22" Slim Medical Display

MEDDP-615
15.6" Slim Medical Display

MEDDP-415
15" Slim Medical Display

MAIN SPECIFICATION

Size	21.5"	15.6"	15"
Resolution	Full HD 1920 x 1080	Full HD 1920 x 1080	1024 x 768
Max. Colors	16.7M	16.7M	16.2M
White Luminance (Typ.)	350 nits	300 nits	250 nits
Viewing Angle (CR=10)(Typ.)	178˚(H)/178˚(V)	85˚(H)/85˚(V)	80˚(H)/70˚(V)
Contrast Ratio (Typ.)	1000:1	700:1	700:1
Touch Screen	Projective capacitive touch screen (optional)		

SYSTEM

OS Support	Windows®XP, Windows® 7, Windows® 10

IO

Audio	Audio-in x 1	Audio-in x 1	Audio-in x 1
Serial Port	USB x 1 for touch controller	USB x 1 for touch controller	USB x 1 for touch controller
Signal	DVI x 1, HDMI x 1, DP x 1	VGA x 1, HDMI x 1	VGA x 1, HDMI x 1
Speaker	2W speaker x 2 on back side	1 W speaker x 2 on back side	1 W speaker x 2 on back side

MECHANICAL AND ENVIRONMENT

Power Requirement	DC12V / 5A power input	DC12V / 5A power input	DC12V / 5A power input
Operating Temperature	5°C ~ 40°C(41°F ~ 104°F)	5°C ~ 40°C(41°F ~ 104°F)	5°C ~ 40°C(41°F ~ 104°F)
Storage Temperature	-10°C ~ 60°C(14°F ~ 140°F)	-10°C ~ 60°C(14°F ~ 140°F)	-10°C ~ 60°C(14°F ~ 140°F)
Storage Humidity	10%~90%@35°C, non-condensing	10%~90%@35°C, non-condensing	10%~90%@35°C, non-condensing
Dimension	527.3 x 348.5 x 55.1 mm	387.8 x 232.9 x 38.4 mm	352.5x 276.1 x 45.0 mm
Packing Size	570 x 478 x 260 mm	425.3 x 269.2 x 45.6 mm	402.5x 326.1 x 80.0 mm
Gross Weight	8.4kg (18.51lb)	6.5 kg (14.33lb)	2.6kg (5.73 lb)
Net Weight	5.7kg (12.57lb)	2.8 kg (6.2lb)	3.7 kg (8.16lb)
Certifications	CE: EN 60601-1-2:2015(V4.0) , EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B,	CE: EN 60601-1-2:2015(V4.0),EN 60950-1 EN 60601-1:2006/A1:2013/ A12:2014 (V3.1) EN 62366:2007 + A1:2014 (V1.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0) EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B, Part 15 Class B

MEDICAL COMPUTER FOR MEDICAL DEVICE

The Onyx MEDPC series shortens your product time to market and helps you to win more market share. Featuring a rich and diversified medical computer platform, the MEDPC series offers a more powerful fanless box PC with flexible I/O customization options.

Key Features:

- All system with flat shape outline, easy to clean
- Support dual display output
- Variety IO, High speed USB 3.0, COM ports, GbE LAN, digital / analogue video output

Ready-to-use Medical Certified Platform

Latest Off-the-shelf Processor for Selection

Unique Medical Device Functions

5-7 Year Longevity Lifecycle Support

MEDPC-9200
High Performance Medical Grade PC with Intel ® 6th Generation Core™ iSeries

MEDPC-9300
High Performance Medical Grade PC with AMD RyzenTM Embedded V1000

APPLICATION

Hospital Information System, Medical equipment, Drug Store, Lab

SYSTEM SPECIFICATION

Processor	Intel® 7th/6th Generation Core™ i7/ Core™i5/Core™ i3	AMD RyzenTM Embedded V1000 V1807B / V1605
System Memory	Supports Dual Channel DDR4 SODIMM up to 32 GB	DDR4 SODIMM x2, Max. 32GB (V1807B) DDR4 SODIMM x2, Max. 24GB (V1605B)
OS Support Chipset	Windows® 7, Windows® 8,Windows®10, Linux® (optional)	Win 10 IoT Enterprise 64-bit / Linux
Expansion Interface	PCI-Express [x1] x 1,Half-size Mini-Card x1, Full/Half-size Mini-Card x1	1x PCI-E(8x), M.2 (E-key, type:2230) ,1x M.2 (B-key, type:2280)1x Mini-Card
Storage Disk Drive	2.5" SATA SSD x 1	2.5" SATA SSD x 1, M.2 (B-key,Type 2280) x1

GRAPHIC SPECIFICATION

Chipset	Intel® H110	N/A

I/O

Video	Display Port x 1, HDMI x 1	Display port x 1, HDMI x 1, USB Type C x 1
Audio	Mic-in, Line-out	Mic-in, Line-out
USB	USB 3.0 x 4, USB 2.0 x 2	USB 3.1 x 2 USB 2.0 x 2, USB TypeC x 1
Serial Port	RS232 x 2	RS232 x 2
Ethernet	Gigabit LAN x 2	Gigabit LAN x 2

MECHANICAL AND ENVIRONMENTAL

Power Requirement	DC12V power input	DC12V power input
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	
Dimension	197x197x59.5 mm for main layer 197x197x44 mm for extension layers	197x197x59.5 mm for main layer 197x197x44 mm for extension layers
Packing Size	300 x 280 x 95 mm	300 x 280 x 95 mm
Gross Weight	3.3 kg (7.25 lb) in the single layer, 4.0 kg (7.25 lb) in two layer	3.3 kg (7.25 lb) in the single layer, 4.0 kg (7.25 lb) in two layer
Net Weight	2.5 kg in the single layer, 3.7 kg in two layers	2.5 kg in the single layer, 3.7 kg in two layers
Certifications	CE: EN60601-1-2:2015(V4.0), EN60601-1:2006/ A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B , Part 15 Class B UL:ANSI/AAMI ES60601-1:2012(V3.1) CUL: CAN/CSA-C22.2 No.60601-1:2014(V3.1)	

MEDPC-2100

Ultra Slim Medical Grade PC with Intel Bay Trail SoC

APPLICATION

Hospital Information System, Medical equipmetn, Drug Store, Lab

SYSTEM SPECIFICATION

Processor	Intel® Quad Core Celeron J1900 2GHz
System Memory	2GB DDR3 up to 8GB
OS Support Chipset	Windows® 7, Windows® 10
Expansion Interface	Mini Card Slot x 1 [half size]
Storage Disk Drive	Cfast Card x 1

GRAPHIC SPECIFICATION

Chipset	Intel® HD Graphics

I/O

Video	VGA x 1, HDMI x 1
Audio	Line out, Mic-in
USB	USB 2.0 x 3 , USB 3.0 x 1
Serial Port	RS232 x1
Ethernet	Gigabit LAN x 1

MECHANICAL AND ENVIRONMENTAL

Power Requirement	DC 12V power input
Operating Temperature	0°C ~ 40 °C(32°F ~104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	196 x 131 x 50 mm
Packing Size	305 x 225 x 230 mm
Gross Weight	2.4kg (5.28lb)
Net Weight	1.2Kg (2.64lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1), EN 300 328 (V2.1.1), EN 301 893 (V2.1.1) FCC: Part 18 Class B, Part 15 Class B, Part 15 C/E UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

HEALTHCARE INFOTAINMENT ALL IN ONE COMPUTER

Onyx Infotainment Series are offered in 10.1”/11.6”/15.6”/18.5” touch panel LCDs and are all low power high performance all-in-one terminals with high brightness, wide viewing angles, and anti-microbial design. From the high performance Intel® processor to power saving Atom Based CPUs, Onyx Infotainment series allows customers to select from a wide variety of bedside solutions variety bedside solution that best fits their need and budget.

Key Features:

- Improving the quality of patient care
- Providing right care for individual patient
- Reducing work load for medical staffs
- Reducing human error
- Help hospital generate new revenues
- Make patients hospital stay more comfortable

Complete Range of medical solutions to suit your need

Peripheral Support Features that Extend your Efficiency

Ergonomic & Cost-effective Design

Power over Ethernet(PoE)

Multifunctional Remote Control

ONYX-BE153R
15.6" Fanless Android Bedside Computer

ONYX-BE122R
11.6" Fanless Android Bedside Computer

ONYX-BE102R
11.6" Fanless Android Bedside Computer

APPLICATION

Ward - Bedside Infotainment, Nursing Station / Cart

MAIN SPECIFICATION

Processor	Rockchip RK3288 ARM Cortex-A17 QC 1.6GHz
System Memory	DDR3L 2 GB
OS Support	Android6.0
Expansion	Mini PCIe Slot x 1
Storage Disk Drive	16 GB eMMC
Security	13.56MHz RFID Reader (Optional)
Wireless Communication	802.11 ac + BT 4.1
Speaker	2W x2
Camera	5 Megapixels
Power Requirement	DC 12V / POE

DISPLAY

Size / Type	15.6" (16:9) Color TFT LCD	11.6" (16:9) Color TFT LCD	10.1" (16:9) Color TFT LCD
Max. Resolution	1920 x 1080 FHD	1366 x 768 HD	1280 x 800
Luminance	220 nits	250nits	400nits
Touch Screen	Projected Capacitive Touch		

I/O

USB	USB 2.0 (Type-A) x2
Serial Port	RS-232 x1 (Optional)
Ethernet	Gigabit LAN x1 (Support Power over Ethernet)
Audio	3.5mm Phone Jack x1
Video	HDMI Out x1 (Optional)
SD Card Slot	Micro SD x1 (Optional)
DC-In	DC-In Jack x1

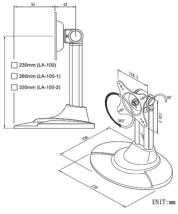
MECHANICAL AND ENVIRONMENT

Infection Control	Anti-Bacteria (Optional)		
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)		
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)		
Degree of protection	Front Panel: IP65, Whole Unit: IP54		
Mounting	VESA 75/100 mm		
Dimension	397.8 x 268.0 x 42.3 mm	299.9 x 2049 x 38.9 mm	262.36 x 191.1 x 45 mm
Packing Size	721 x 224 x 464 mm	540 x 230 x 370 mm	402 x 190 x 335 mm
Gross Weight	6.5 kg (14.33lb)	4 kg (8.82lb)	3.7 kg (8.2lb)
Net Weight	2.8 kg (6.17lb)	1.5 kg (3.3lb)	1.2 kg (2.6lb)
Certifications	CE: EN 60601-1-2:2015(V4.0),EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1)		

PATIENT MONITORING ACCESSORY SELECTION

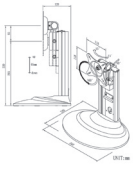
OPM-H02S
Desktop Stand

- Apply to 10"~22" Slim Medical Panel PC, Medical Display
- Spinning around high and mighty; able to bear 5kg to 12kg.
- Providing 2 mounting space in coordination with VESA standard: 75mm x 75mm and 100mm x100mm
-



OPM-H01S
Desktop Stand

- Apply to 15" ~ 24" Medical Station, Slim Medical Panel PC, Medical Display
- Spinning around high and mighty; able to bear 5 kg to 15kg.
- Providing 2 mounting space in coordination with VESA standard:75mm x 75mm and 100mm x100mm
- The angle of view was designed adjustable for clear vision
- Flexible angle create brand-new atmosphere of monitors.
- Up-to-date choice in the multimedia era.
- Show yourself and break the limit of environment.
- Regulate as you want to make more space.
-



OPM-H08S
Desktop Stand

- Apply to 19" ~ 32" Medical All in One PC.
- Spinning around high and mighty; able to bear 2 kg to 20kg.
- Providing 2 mounting space in coordination with VESA standard:75mm x 75mm and 100mm x100mm
- The angle of view was designed adjustable for clear vision
- Flexible angle create brand-new atmosphere of monitors.
- Up-to-date choice in the multimedia era.
- Show yourself and break the limit of environment.
- Regulate as you want to make more space.

OPM-H12A
VESA Mount Power Adapter Holder

- Design for 1255301202 & 1255301204 with 120W
- Apply to 15" to 24" Medical Station, Slim Medical Panel PC
- Providing 2 mounting spaces in coordination with VESA standard: 75mm x 75mm and 100mm x 100mm

HEALTHCARE INFOTAINMENT ACCESSORY SELECTION

OPM-H13A/H14A
Easi Wall Mount Swivel ARM

OPM-H15A/H16A
Easi Ceiling Mount Swivel ARM

FEATURES

- Built in "Gas Spring" for easy movement
- Cable management
- Anti-bacteria coating (optional)

FEATURES

- Built in "Gas Spring" for easy movement
- Cable management
- Anti-bacteria coating (optional)

	OPM-H13A-A1	OPM-H14A-A1	OPM-H15A-A1	OPM-H06A-A1
Feature	Long ARM		Ceiling Mount	
Tile	20° up and 35° down (display) 20° up and 60° down (arm)		20° up and 35° down (display) 20° up and 60° down (arm)	
Mounting Option	Wall Mount Type		Ceiling Mount Type	
VESA	75/100mm		75/100mm	
Material	Aluminum alloy and plastic cover		Aluminum alloy and plastic cover	
Pivot	180°, 370°, 270° (wall, arm, display)		270°, 370°, 270° (ceiling, arm, display)	
Extension	1907mm		1927mm	
Capacity	1~6Kg (2.2~13.2lbs)	6~12kg (13.2~26.4lbs)	1~6Kg	6~12kg

OPM-H04A
Ergonomic Wall Mount Swivel ARM

OPM-T018
Smart VOIP Handset

FEATURES

- Durable and easy to clean
- Double Gas springs assisted for high vertical movement
- Fully cable managed

Feature	Long ARM
Tile	20° up and 40° down
Mounting Option	Wall Mount Type
Material	Aluminum alloy and plastic cover
Arm swivel	180°
Overall reach	1700mm
Capacity	1~8Kg

FEATURES

- Extend Onyx Bedside Services closed to the Patients
- Foil keyboard designed for easy cleaning and infection control
- Integrate the hall sensor for auto detection of on and off hook event
- Lockable socket designed for the lost prevention
- Sample code and API available for easy programming of
- key mapping for different field applications

Interface	USB 2.0 with RJ45 Socket
Connection Cable	41cm Curly Cable with RJ45 Plug
On-hook Key	x1
Off-hook Key	x1
Numeric Keypad	1, 2, 3, 4, 5, 6, 7, 8, 9, 0, *, #
Multimedia Keypad	x1
Hall Sensor	x1
Loudspeaker	x1
Microphone	x1
Camera	2 Megapixels x1 (Optional)
Nurse Call Button	x1 (By Request)

onyx
Smart Healthcare an ASUS assoc. co.

Headquarters

Onyx Healthcare Inc.

Worldwide Offices

America

USA

Onyx Healthcare, USA Inc.

324 W. Blueridge Ave., Orange, CA 92865

Tel: +1-714-792-0774

Fax: +1-714-792-0481

E-mail: USAsales@onyx-healthcare.com

Europe

Netherlands

Onyx Healthcare EUROPE B.V.

Primulalaan 42, 5582 GL Waalre, The Netherlands

Tel: +31-(0)499-745600

E-mail: eusales@onyx-healthcare.com

Asia & China

China

Onyx Healthcare (Shanghai) INC.

20F, unit D, GEM Building, No. 487 Tianlin Road, Shanghai, China

Tel: 021-64956588-602

E-mail: dicksheng@onyx-healthcare.com