2023 Catalogue

One Step Ahead of Medical AI Innovation
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MD116 Accessory Selection

10.1” Rugged Medical Tablet -
22” Fanless 7th Generation Core i7 Professional Medical All in One PC -
24” Fanless 7th Generation Core i7 Professional Medical All in One PC -
12” Fanless Intel ATOM / i5 Medical Tablet -
XL Battery / XXL Battery

UPower Pro-22
UPower Pro-43

12”~ 17” Mini Mobile Computer Accessory Selection

11.6” Intel i7/i5/i3 Medical Panel PC with Dual Battery -
17” Intel i7/i5/i3 Medical Panel PC with Dual Battery -

19”~24” Self-Power Cart Computer Accessory Selection

21.5” Dual Hot Swappable Battery Medical Cart Computer -
23.8” Dual Hot Swappable Battery Medical Cart Computer -
24”/22” Dual Hot Swappable Battery Medical Cart Computer -
22” Medical AI Accelerator with NVIDIA Ampere MXM Graphics -
Slim Size Medical AI Computing Platform with Intel® 12th Gen Core I CPU -
NVIDIA Jetson Orin NX platform for Medical AI imaging application -
NVIDIA Jetson AGX Orin platform for Medical AI imaging application -
NVIDIA Jetson AGX Xavier or AGX Xavier Industrial platform

Dual GPU card Medical AI Edge PC with Intel 12th Gen Core i9 CPU -
Intel Distribution of Openvino Toolkit

NVIDIA  AIoT Solution

OEM/ODM Service

About Onyx
Awards
The 25th National Award of Outstanding Small and Medium-sized Enterprises Healthcare is an honored recipient today of the 25th National Award of Outstanding Small and Medium-sized Enterprises. The National Award of Outstanding Small and Medium-sized Enterprises are seen as the Academy Awards (Oscars) for enterprises in Taiwan, representing the highest honor which can be granted to the winner in their industry.

Onyx Healthcare has recently won two awards from the Small and Medium Enterprise Administration, Ministry of Economic Affairs (SMEA/MOEA), R.O.C. In recognition of its excellence in global export trade, Onyx was given The Rising Star Award. For its Venus Series of mobile cart computers, the company received the Taiwan SMEs Innovation Award for performance in innovation and research development.

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.
AWARDS

THE 25TH NATIONAL AWARD OF OUTSTANDING SMALL AND MEDIUM-SIZED ENTERPRISES

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OEM / ODM SERVICE

ONYX -YOUR DESIGN & MANUFACTURING KITCHEN

1st Choice of Medical Device OEM / ODM Partners

DESIGN TO WIN

Excellent design is the superior tool to win business. Based on such belief, Onyx has kept striving to strengthen our abilities in design experience since we started the company. We have trained outstanding R&D engineers to establish the professional team. They are not only experts in product developments, but also very in tune with the trends of technical and technology to assist our clients exploit new products that are truly competitive and break into the international market.
ONNYX Healthcare Inc. provides a 2 year manufacturer’s warranty to the entire ONNYX product family and supports our clients locally via worldwide service centers with design and technical support capability. The company has acquired the following certifications and established its corporate quality assurance system with detail operational guide using closed loop feedback system approach. Throughout design, manufacturing, and service stages, ONNYX Healthcare Inc. is committed to quality and service excellence with extensive knowledge to meet specific needs of medical IT and platform clients.

**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.

<table>
<thead>
<tr>
<th>Certification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ISO 13485:2016</strong></td>
<td>Onyx meets specifies requirements of ISO 13485:2016 for a quality management system where an organization needs to demonstrate its ability to provide medical devices and related services from 2011/08/02. Valid until: 27, February, 2022</td>
</tr>
<tr>
<td><strong>FCC</strong></td>
<td>All of onyx's products comply with FCC Part 18.</td>
</tr>
<tr>
<td><strong>CE : EN 60601-1-2 : 2015 (V4.0) / EN60601-1 : 2006 / AI : 2013 (V3.1)</strong></td>
<td>All of onyx's products comply with 93/42/EEC.</td>
</tr>
<tr>
<td><strong>UL : ANSI / AAMI ES60601-1 : 2012 (V3.I)</strong></td>
<td>All of onyx's products have got the UL certificate.</td>
</tr>
<tr>
<td><strong>CCC</strong></td>
<td>Some of Onyx products meets the CCC mark is required for both Chinese manufactured and foreign imported products.</td>
</tr>
</tbody>
</table>

**CLOROX HEALTHCARE COMPATIBILITY PROGRAM**

Onyx Products Approved Clorox Healthcare Compatible™ for Safer Medical Environments
**READY TO USE EMBEDDED COMPUTING PLATFORM:**

Belonging to ASUS and Aaeon Group, Onyx provides rich and cutting edge motherboard technology to our clients. Do not worry about falling behind your competition. Your company will be the leader in the field.

- Off-the shelf miniITX motherboard solution
- Latest Computer-on Module (COM) solutions
- Single compact computer solutions (X86 and RISC ARM)
- Free of charge BIOS and driver service

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**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.

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**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.
AI INFEERENCE 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

NVIDIA Solution AIoT

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 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.

NVIDIA CLARA

An application framework optimized for healthcare & life sciences developers

AI inference hardware
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AI INFERENACE 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.

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.
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™ X is compatible with Intel® Distribution of OpenVINO toolkit, making it easy to setup and run AI inference software.

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.
Features

- Intel® 9th generation Core I/Xeon Processor with C246A chipset
- Supports ECC DDR4 DIMM up to 64GB memory
- Excellent Thermal design with low fan noise OR room environment
- Support TPM 2.0 for security management
- Support Three 4K Displays: HDMI x 2, DP x 1
- System is medical Certified with graphic card and capture card
- Support the integration of Nvidia RTX A4000, A5000 and A6000 GPU Card
- Support CD DVD(optional)
- Support Built in speaker (optional)

Application

- Equipment control
- Video recording in OR room
- Medical AI Application

Specifications

<table>
<thead>
<tr>
<th>MAIN SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
</tr>
<tr>
<td>System Memory</td>
</tr>
<tr>
<td>Chipset</td>
</tr>
<tr>
<td>OS Support</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
</tr>
<tr>
<td>TPM</td>
</tr>
<tr>
<td>Speaker (Optional)</td>
</tr>
<tr>
<td>CD DVD(Optional)</td>
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</tbody>
</table>

I/O

<table>
<thead>
<tr>
<th>USB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear USB 3.1 Gen 1 x 4</td>
</tr>
<tr>
<td>Front USB 2.0 or USB 3.0 (Optional)</td>
</tr>
<tr>
<td>Rear USB 3.1 Gen 2 x 6 (Optional)</td>
</tr>
<tr>
<td>Ethernet</td>
</tr>
<tr>
<td>Audio</td>
</tr>
<tr>
<td>Serial Ports</td>
</tr>
<tr>
<td>Extension area</td>
</tr>
<tr>
<td>Capture card (optional)</td>
</tr>
</tbody>
</table>

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 x 357.4 x 168 mm |
| Package Size         | 500 x 490 x 300 mm |
| Gross Weight         | 8.6 kg |
| Net Weight           | 8 kg |

※ All product specifications are subject to change without notice
### Ordering Information

- **ACCEL-VM500-N1-A1-0010**
  Medical Box PC. I7-9700E. FAN. 4 PCIe slot. AC 100~240V. White
- **ACCEL-VM500-N2-A1-0010**
  Medical Box PC. E-2278GE. FAN. 4 PCIe slot. AC 100~240V. White
- **ACCEL-VM500R-N1-A1-0010**
  4K UHD Medical Recorder. I7-9700E. Fan. 16GB RAM. 1TB HDD. Win 10 IoT. 4Kp60+FHD. ACCE-RM Pre-installed

### Optional Accessories

- **OPM-C12W-A13**
  WLAN Kit. 802.11a/b/g/n/ac/w/BT 4.1 dual ext. antenna. Qualcomm Atheros NFA364A. for ACCEL-VM500
- **OPM-C19W-A13**
  WLAN Kit. 802.11a/b/g/n/ac/ BT 5 dual ext. antenna. Intel AC 9260NGWIE. NV999LV6. for ACCEL-VM500
- **9686666685**
  4k HDMI capture card. 2 Port. HDMI2.0
- **9686015601**
  Full HD PCIe Video. Capture Card. 1x HDMI, 1x DVI-I, 1x YPbPr, 1x SDI, 1x CVBS, 1x S-Video
- **9686A40000**
  (AOH)(TF) Graphics Card. NVIDIA Quadro RTXA4000. 16GB. GDDR6. PCI-E 4.0*16.DP 1.4. NVIDIA.RTX A4000
- **9686A50000**
  (AOH)(TF) Graphics Card. NVIDIA Quadro RTXA5000. 24GB. GDDR6. PCI-E 4.0*16.DP 1.4. NVIDIA.RTX A5000
- **9686A60000**
  (AOH)(TF) Graphics Card. NVIDIA Quadro RTXA6000. 48GB. GDDR6. PCI-E 4.0*16.DP 1.4. NVIDIA.RTX A6000

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

<table>
<thead>
<tr>
<th>Dimension / Unit: mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Dimension Diagram" /></td>
</tr>
</tbody>
</table>

**ACCEL-VM500**
Features

- Intel® Core™ i9-12900E Processor 30M Cache, up to 5.00 GHz
- Support 4 x ECC DDR4 3200 288 pin Long-DIMM up to 128GB
- Optional 7” Front Screen with P-Cap Touch
- Support front dual USB 3.0
- Support GPIO and Remote Power Switch design for embedded use
- Support Dual Nvidia RTX A6000 cards and additional capture card installation
- Support 4 x PCIe Gen4 Slots for high end graphic card and capture card integration
- Support Medical Grade 1500W PSU for Dual GPU Card and 700W PSU for Single GPU card

Application

- Medical AI Application

Specifications

**MAIN SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Core™ i9-12900E Processor 30M Cache, up to 5.00 GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>ECC DDR4 3200 DIMM x 4 up to 128GB</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® W680</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA SSD x 2, M.2 2280 NVMe SSD x 1</td>
</tr>
<tr>
<td>TPM</td>
<td>2.0</td>
</tr>
<tr>
<td>Front Screen (Optional)</td>
<td>7” LED Panel with P-Cap Touch</td>
</tr>
<tr>
<td>Speaker (Optional)</td>
<td>5W x 2</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 10 and 11, Linux (optional)</td>
</tr>
</tbody>
</table>

**I/O**

- **USB**
  - USB 3.2 Gen 2 Type A x 5, USB Gen 2.0 Type C x 1
- **Ethernet**
  - GigabitLAN x 1, 2.5G LAN x 2
- **Video Out**
  - HDMI 2.0 x 1, DP 1.4 x 1, VGA
- **Audio**
  - Line-in x 1, Mic-in x 1, Line-out x 1
- **Series Ports**
  - RS232 x 2
- **Function I/O**
  - Remote power switch x 1 (Optional)
  - Grounding pin x 1
- **Power**
  - AC input
- **Front I/O**
  - USB 3.0 x 2, Power Button x 1
- **Expansion I/O**
  - 2 x PCIe Gen4 Slots (PCIE1/PCIE3: single at x16(PCIE1); dual at x8(PCIE1)/x8 (PCIE3))
  - with x16 connector
  - M.2 2230 E Key x 1
  - M.2 2280 M Key [PCIe x 4] x 1

**MECHANICAL AND ENVIRONMENTAL**

- **Power**
  - 100V to 240V AC input, 700W or 1500W
- **Operating Temperature**
  - 0°C ~ 35°C (32°F ~ 95°F)
- **Storage Temperature**
  - -20°C ~ 60°C (4°F ~ 140°F)
- **Dimension**
  - 420 x 409 x 169 mm
- **Package Size**
  - 600 x 290 x 510 mm
- **Gross Weight**
  - 12kg
- **Net Weight**
  - 11kg

※ All product specifications are subject to change without notice
Dual GPU card Medical AI Edge PC for Real time medical imaging application with intel i9-12900E processor

**Dimension / Unit: mm**

![Dimension Diagram]

### Ordering Information

- **ACCEL-VM1000-N1-A1-1010**
  Medical PC. i9-12900E. 700W PSU. White

- **ACCEL-VM1000-N1-A2-1010**
  Medical PC. i9-12900E. 7” Panel. 700W PSU. P-Cap. White

- **ACCEL-VM1000-N1-A3-1010**
  Medical PC. i9-12900E. 1500W PSU. White

- **ACCEL-VM1000-N1-A4-1010**
  Medical PC. i9-12900E. 7” Panel. 1500W PSU. P-Cap, White

- **ACCEL-VM1000-N2-A1-1010**
  Medical PC. i7-12700E. 700W PSU. White

- **ACCEL-VM1000-N2-A2-1010**
  Medical PC. i7-12700E. 7” Panel. 700W PSU. P-Cap, White

- **ACCEL-VM1000-N2-A3-1010**
  Medical PC. i7-12700E. 1500W PSU. White

- **ACCEL-VM1000-N2-A4-1010**
  Medical PC. i7-12700E. 7” Panel. 1500W PSU. P-Cap, White

### Optional Accessories

- **9686A60000**
  (AOH)(TF) Graphics Card. NVIDIA Quadro RTXA6000. 48GB. GDDR6. PCI-E 4.0*16. DP.1.4. NVIDIA. RTX A6000

- **9686A50000**
  (AOH)(TF) Graphics Card. NVIDIA Quadro RTXA5000. 24GB. GDDR6. PCI-E 4.0*16. DP.1.4. NVIDIA. RTX A5000
### Features

- NVIDIA Jetson AGX Xavier or AGX Xavier Industrial Platform for Medical AI imaging application.
- Support AGX Xavier Industrial Platform with 10 years Longevity
- 512-core Volta GPU with Tensor Cores
- Support optional 3G or 12G or HDMI 2.0 input for image capture
- Support Dual 4K display output (HDMI and Display port)
- Support internal speaker
- Medical Certification
- Palm size dimension with powerful AI computing

### Specifications

**Main Specifications**

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<thead>
<tr>
<th></th>
<th>ACCEL-JS500</th>
<th>ACCEL-JS500i</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AI Engine</strong></td>
<td>NVIDIA Jetson AGX Xavier</td>
<td>NVIDIA Jetson AGX Xavier Industrial</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>8-Core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3</td>
<td>8-Core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>32GB 256-bit LPDDR4 w/ECC</td>
<td>64GB eMMC Onboard</td>
</tr>
<tr>
<td><strong>Graphics</strong></td>
<td>512 Core Volta GPU with Tensor Cores</td>
<td>M.2 M Key 2280 (Only for ACCEL-JS500i-N1-A1-0010 and ACCEL-JS500i-N1-A2-0010)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>64GB eMMC Onboard</td>
<td>M.2 M Key 2280 (Only for ACCEL-JS500i-N1-A1-0010 and ACCEL-JS500i-N1-A2-0010)</td>
</tr>
<tr>
<td><strong>OS support</strong></td>
<td>Linux with jetpack OS</td>
<td>Linux with jetpack OS</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>TPM 2.0</td>
<td>TPM 2.0</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td>2W x Speaker x 2</td>
<td>2W x Speaker x 2</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>USB Type C x 2 for USB 3.1</td>
<td>USB Type A x 1 for USB 3.0</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>Gigabit LAN x 1</td>
<td>Gigabit LAN x 1</td>
</tr>
<tr>
<td><strong>Video Out</strong></td>
<td>HDMI 2.0 x 1, Display Port 1.4 x 1</td>
<td>3G SDI 1 or 12G SDI 1 x 1</td>
</tr>
<tr>
<td><strong>Video input (Optional)</strong></td>
<td>3G SDI(Max resolution up to 1920×1080p@60fps)</td>
<td>12G SDI(Max resolution up to 4096×2160@60fps)</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>Mic-in x 1, Line out x 1</td>
<td>Mic-in x 1, Line out x 1</td>
</tr>
<tr>
<td><strong>COM</strong></td>
<td>RS232 x 1</td>
<td>RS232 x 1</td>
</tr>
<tr>
<td><strong>Wireless Communication</strong></td>
<td>802.11a/b/g/n/ac, BT5.0 (Optional)</td>
<td>802.11a/b/g/n/ac, BT5.0 (Optional)</td>
</tr>
<tr>
<td><strong>LED Indicator</strong></td>
<td>Power LED x 1</td>
<td>Power LED x 1</td>
</tr>
</tbody>
</table>

**Environment and Mechanical**

| **Power**              | Medical adapter 12V 84W |
| **Operating temperature** | -5°C ~ 35°C(23°F ~ 95°F) |
| **Storage temperature** | -20°C ~ 60°C(-4°F ~ 140°F) |
| **Dimension**          | 184(W) x 145(L) x 66mm(H) |
| **Package Size**       | 290(W) x 225(L) x 198mm(H) |
| **Gross Weight**       | 2.33 kg               |
| **Net Weight**         | 1.675 kg              |

※ All product specifications are subject to change without notice
NVIDIA Jetson AGX Xavier or AGX Xavier Industrial platform for Medical AI imaging application

**Dimension / Unit: mm**

![Dimension Diagram]

**Ordering Information**

- ACCEL-JS500-N1-A1-0010
  Medical grade AI box PC, NVIDIA Jetson AGX Xavier, Fan. adapter with internal speaker
- ACCEL-JS500-N1-A2-0010
  Medical grade AI box PC, NVIDIA Jetson AGX Xavier, Fan. 3G SDI adapter, with internal speaker
- ACCEL-JS500-N1-A3-0010
  Medical grade AI box PC, NVIDIA Jetson AGX Xavier, Fan. 12G SDI adapter, with internal speaker
- ACCEL-JS500-N1-A4-0010
  Medical grade AI box PC, NVIDIA Jetson AGX Xavier, Fan. HDMI 2.0 adapter, with internal speaker
- ACCEL-JS500I-N1-A1-0010
  Medical grade AI box PC, NVIDIA Jetson AGX Xavier Industrial, Fan. adapter with internal speaker
- ACCEL-JS500I-N1-A2-0010
  Medical grade AI box PC, NVIDIA Jetson AGX Xavier Industrial, Fan. 3G SDI adapter, with internal speaker
- ACCEL-JS500I-N1-A3-0010
  Medical grade AI box PC, NVIDIA Jetson AGX Xavier Industrial, Fan. 12G SDI adapter, with internal speaker

**Optional Accessories**

- M14S500030
  (A0H)(TF)Metal.AI.PC.Holder.RAL 9003 H04.Rev0.0.ACCEL-JS500
- OPM-C18W-A15
  WLAN Kit.802.11a/b/g/n/ac w/BT 5.0.dual ext. antenna. Qualcomm Atheros QCNFA364A for ACCEL-JS500
Features

- NVIDIA Jetson AGX Orin platform with 64GB LPDDR5 or 32GB LPDDR
- Powerful AI computing performance with up to 275 TOPS
- Support 12G SDI or HDMI 2.0 video output
- Compact size suitable for space limited area
- Support 3G SDI or 12G SDI video input
- Medical certified with CE/FCC/UL
- Support optional PCIe [x8] x1 for possible customization
- Support built in speaker x 2

Specifications

Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI Engine</td>
<td>NVIDIA Jetson AGX Orin</td>
</tr>
<tr>
<td>CPU</td>
<td>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 + 8MB L3 (ACCEL-JS1000-N2)</td>
</tr>
<tr>
<td>System Memory</td>
<td>232GB or 64GB 256-bit LPDDR5 204.8 GB/s</td>
</tr>
<tr>
<td>Graphics</td>
<td>1792-core NVIDIA Ampere GPU with 56 Tensor Cores (ACCEL-JS1000-N1) / 2048-core NVIDIA Ampere GPU with 64 Tensor Cores (ACCEL-JS1000-N2)</td>
</tr>
<tr>
<td>Storage</td>
<td>64GB eMMC 5.1, 2.5” SATA SSD</td>
</tr>
<tr>
<td>OS Support</td>
<td>Linux 20.04 with Jetpack 5.0</td>
</tr>
<tr>
<td>Security</td>
<td>TPM 2.0</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W x Speaker x 2</td>
</tr>
<tr>
<td>I/O</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>USB Type C x 2 for USB 3.2</td>
</tr>
<tr>
<td>Ethernet</td>
<td>GigaLAN x 1</td>
</tr>
<tr>
<td>Video Out</td>
<td>HDMI 2.0 x 1 or 12G SDI x 1</td>
</tr>
<tr>
<td>Video input</td>
<td>3G SDI or 12G SDI</td>
</tr>
<tr>
<td>Audio</td>
<td>Mic in x 1, Line out x 1</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS232 x 1</td>
</tr>
<tr>
<td>Function Port</td>
<td>Reset Button x 1, Recovery Button x 1, Grounding pin x 1</td>
</tr>
<tr>
<td>DC in</td>
<td>12V DC jack</td>
</tr>
<tr>
<td>Front I/O</td>
<td>Power Button with Power LED indicator x 1</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11a/b/g/n/ac/ax/w/BT5.2 (Optional)</td>
</tr>
<tr>
<td>Expansion I/O</td>
<td>PCIe [x8] x 1 (Optional)</td>
</tr>
</tbody>
</table>

Mechanical and Environmental

- Power: Medical adapter 12V 120W
- Operating temperature: -4°C - 35°C(32°F - 95°F)
- Storage temperature: -20°C - 60°C(-4°F - 140°F)
- Dimension: TBC
- Package Size: TBC
- Gross Weight: TBC
- Net Weight: TBC

*All product specifications are subject to change without notice
## Features
- NVIDIA Jetson Orin NX platform with 16GB LPDDR5 or 8GB LPDDR5
- Powerful AI computing performance with up to 100 TOPS
- Support 12G SDI or HDMI 2.0 video output
- Compact size suitable for space limited area
- Support 3G SDI or 12G SDI video input
- Medical certified with CE/FCC/UL
- Support built in speaker x 2
- Fanless Design

## Specifications

### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI Engine</td>
<td>NVIDIA Jetson Orin NX</td>
</tr>
<tr>
<td>CPU</td>
<td>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)</td>
</tr>
<tr>
<td>System Memory</td>
<td>8GB or 16GB 128-bit LPDDR5 or 8GB LPDDR5</td>
</tr>
<tr>
<td>Graphics</td>
<td>1024-core NVIDIA Ampere GPU with 32 Tensor Cores</td>
</tr>
<tr>
<td>Storage</td>
<td>NVMe M.2 SSD, 2.5” SATA SSD</td>
</tr>
<tr>
<td>OS Support</td>
<td>Linux 20.04 with Jetpack 5.0</td>
</tr>
<tr>
<td>Security</td>
<td>TPM 2.0</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W x Speaker x 2</td>
</tr>
<tr>
<td>USB</td>
<td>USB Type C x 2 for USB 3.2</td>
</tr>
<tr>
<td>USB Type A</td>
<td>USB Type A x 2 for USB 2.0</td>
</tr>
<tr>
<td>Ethernet</td>
<td>GigLAN x 1</td>
</tr>
<tr>
<td>Video Out</td>
<td>HDMI 2.0 x 1 or 12G SDI x 1</td>
</tr>
<tr>
<td>Video input</td>
<td>3G SDI or 12G SDI</td>
</tr>
<tr>
<td></td>
<td>3G SDI (Max resolution up to 1920×1080p@60fps), 12G SDI (Max resolution up to 4096×2160@60fps)</td>
</tr>
<tr>
<td>Audio</td>
<td>MicIn x 1, Line Out x 1</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS232 x 1</td>
</tr>
<tr>
<td>Function Port</td>
<td>Reset Button x 1, Recovery Button x 1, Grounding pin x 1</td>
</tr>
<tr>
<td>DC in</td>
<td>12V DC Jack</td>
</tr>
<tr>
<td>Front I/O</td>
<td>Power Button with Power LED indicator x 1</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11a/b/g/n/ac/ax/ax/w/BT5.2 (Optional)</td>
</tr>
</tbody>
</table>

### Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Medical adapter 12V 65W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C ~ 35°C (32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20°C ~ 60°C (4°F ~ 140°F)</td>
</tr>
<tr>
<td>Dimension</td>
<td>TBC</td>
</tr>
<tr>
<td>Package Size</td>
<td>TBC</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>TBC</td>
</tr>
<tr>
<td>Net Weight</td>
<td>TBC</td>
</tr>
</tbody>
</table>
Features
- Design for 2U Rack mount Chassis
- Intel® 12th generation Core I Processor
- Support 2.5” SATA SSD and M.2 M Key 2280/2260/2242 NVMe
- Internal Medical PSU
- Support 1 x PCIe by 16 slot for Graphic card integration
- Support 1 x PCIe by 4 for capture card integration

Application
- Equipment control
- Medical AI Application

Specifications

<table>
<thead>
<tr>
<th>MAIN SPECIFICATIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 12th generation Core I Processor</td>
</tr>
<tr>
<td>System Memory</td>
<td>Supports ECC/Non-ECC DDR4 2133 DIMM x 4 up to 64GB</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® Q670</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 10 and 11, Linux (optional)</td>
</tr>
<tr>
<td>Storage Disk Driver</td>
<td>2.5” SATA SSD x 1 M.2 M Key 2280/2260/2242 NVMe x 1</td>
</tr>
<tr>
<td>TPM</td>
<td>2.0</td>
</tr>
<tr>
<td>I/O</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>USB 3.2 Gen 2 x 4 , USB 2.0 x 2</td>
</tr>
<tr>
<td>Ethernet</td>
<td>2.5 Gigabit LAN x 2</td>
</tr>
<tr>
<td>Video out</td>
<td>HDMI x 1, DP x 2 , VGA x 1</td>
</tr>
<tr>
<td>Audio</td>
<td>Mic-in x 1, Line-out x 1</td>
</tr>
<tr>
<td>Serial Ports</td>
<td>RS-232 x 2</td>
</tr>
<tr>
<td>Function I/O</td>
<td>Grounding Pin x 1</td>
</tr>
<tr>
<td>Power</td>
<td>AC input</td>
</tr>
<tr>
<td>Front I/O</td>
<td>USB 3.0 x 2 Power Button x 1</td>
</tr>
<tr>
<td>Extension Area</td>
<td>PCIe 3.0(x4) x 1 PCIe 4.0(x16) x 1</td>
</tr>
</tbody>
</table>

MECHANICAL AND ENVIROIMENTAL
- 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: 419mm x 355mm x 90 mm
- Package Size: TBD
- Gross Weight: TBD
- Net Weight: TBD

All product specifications are subject to change without notice
AI Inference Hardware

ACCEL-A2203
22” Medical AI Accelerator with NVIDIA Ampere MXM Graphics

Features

- NVIDIA RTX A1000/A2000/A4500 MXM Graphics
- Intel® 12th generation Core™ i9/ i7/ i5 Processor
- Supports Dual Channel DDR4 3200 SODIMM up to 64GB
- 22” Full HD High Contrast LCD
- Capacitive Multi-Touch Screen
- Two Gigabit Ethernet
- High Speed USB 3.2 Gen2 Ports
- RS-232 x 2
- 8MP Camera with Mic (optional)
- Imprivata RFID Reader (optional)
- Reading Light

Specifications

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

Expansion
- M.2 2280 M Key x1

Graphics
- NVIDIA RTX A1000/A2000/A4500

OS Support
- Windows® 10, Windows® 11, Linux®

Storage Disk Drive
- 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)

Speaker
- 2W x 2

Function Key
- LCD Brightness Up/Down, Touch Screen On/Off, Reading Light On/Off

Power Requirement
- AC 100~240V

DISPLAY

Size
- 22” LCD

Resolution
- 1920 x 1080

Luminance
- 250 nits

View Angle
- 178˚(H)/178˚(V)

Contrast Ratio
- 1000:1

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 x 2, HDMI 2.0b x1

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; IPX1 in the back

Dimension
- 542 x 355 x 67mm

Package Size
- 711 x 195 x 503mm

Gross Weight
- 14 kg (30.86 lb)

Net Weight
- 7.5 kg (16.5 lb)

Certifications
- FCC: Part 18 Class B
- UL: ANSI/AAMI ES60601-1:2012 (V3.1)
- cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)
**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
**Cleanability with Hospital Solvents**

Venus Series was designed for using in hospital environment. The Front IP65 waterproof and non-gap design was made it more easy to be clean with hospital solvent, and fit almost all the cleaning strategies.

**Easy to Management Remotely (ORION)**

ORION, a hospital IT management software package. Remotely monitor battery status including charging cycles, temperature, capacity, and usage statistics, or set custom reminders.

**TPM**

A Trusted Platform Module increase privacy and security utilizing hardware-encryption with files to ensure sensitive information remains safe and secure.

**External Output**

24W DC output connector supplies power to additional medical devices.

**Lightweight Design**

Magnesium alloy construction and 300g batteries ensure the unit is sturdy, yet easy to carry, position and handle.

**Successful Story**

The Venus-Mobile Cart Computer was chosen for use by our nursing staff at the Taiwan Chiang Kai-shek Memory Hospital. The swappable battery saves my time so I can spend more time taking care of more patients. I no longer need to push around a heavy cart from room to room or always look for a socket to charge the battery. I love the lightweight battery and cableless design of Venus which makes the cart lighter and gives me the mobility to move effortlessly and work efficiently. I recommend the Venus series as a practical and useful medical computer for nurses and hospitals.

**Hospital:** Chiang Kai-shek Memory Hospital  
**Nurse:** Lucy Wu  
**Location:** Taiwan  
**Benefit:**  
* Extremely  
* No idle time, Better Efficiency  
* Perfect battery SW
Medical Cart Computer

Venus-224/244

22",24" Dual Hot Swappable Battery Medical Cart Computer

Features

- Intel 11th gen Tigerlake, fan less implementation
- Windows 11 and IGEL Compliant
- Dual Hot Swap Batteries
- Easy cleanable and anti-bacterial
- Internal Imprivata compliant RFID reader (optional)
- WiFi 6 (optional)
- Compliant with all Venus batteries
- Remotely Manageable by central IT departments

Specifications

<table>
<thead>
<tr>
<th>MAIN SPECIFICATIONS</th>
<th>Venus-224</th>
<th>Venus-244</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 11th generation Core i7 1165G7 / i5 1135G7</td>
<td>Intel® 11th generation Core i7 1165G7 / i5 1135G7</td>
</tr>
<tr>
<td>System Memory</td>
<td>DDR4 up to 64GB</td>
<td>DDR4 up to 64GB</td>
</tr>
<tr>
<td>OS Support</td>
<td>Microsoft® Windows 11 / Microsoft® Windows 10 (64bit) / Ubuntu 20.04 LTS / IGEL (thin client solution)</td>
<td>Microsoft® Windows 11 / Microsoft® Windows 10 (64bit) / Ubuntu 20.04 LTS / IGEL (thin client solution)</td>
</tr>
<tr>
<td>Storage</td>
<td>m.2 SSD up to 1TB</td>
<td>m.2 SSD up to 1TB</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 ac/a/b/g/n + BT 4.1 (optional) / WiFi6 + BT 5.2 (optional)</td>
<td>WiFi6 + BT 5.2 (optional)</td>
</tr>
<tr>
<td>Touch</td>
<td>PCT (optional)</td>
<td>PCT (optional)</td>
</tr>
<tr>
<td>Speaker</td>
<td>3W x2</td>
<td>3W x2</td>
</tr>
<tr>
<td>Trusted Platform Module</td>
<td>TPM 2.0</td>
<td>TPM 2.0</td>
</tr>
<tr>
<td>Security</td>
<td>Smart Card Reader (optional) / Imprivata RFID reader (optional) / Barcode reader (optional)</td>
<td>Smart Card Reader (optional) / Imprivata RFID reader (optional) / Barcode reader (optional)</td>
</tr>
<tr>
<td>Waterproof</td>
<td>Front IP65 ; rear IPX1</td>
<td>Rear IP65 ; front IPX1</td>
</tr>
</tbody>
</table>

DISPLAY

- Display Size: 21.5" / 23.8"
- Resolution: FHD 1920 x 1080 / FHD 1920 x 1080
- Max. Colors: 16.7M / 16.7M
- Contrast Ratio: 1000:1 / 3000:1
- Luminance (cd/m2): 250 / 250

I/O

- USB: Rear I/O : USB 3.0 x 2, USB 2.0 x 2 / Front button I/O : USB 3.0 x 2
- Video Out: HDMI 1.4 x 1
- COM: COM port x 2
- Audio: Combo audio port x 1
- Ethernet: 1.5KV isolated Gigabit LAN x 2
- DC-in: 19V DC-in x 1

MECHANICAL AND ENVIRONMENTAL

- VESA: 75/100 mm VESA mount
- Operating Temperature: 0°C ~ 35°C (32°F ~ 95°F)
- Storage Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- Storage Humidity: 10%~95% (non-condensing)
- Dimension: 510(L) x 78.4(W) x 346(H) / 560(L) x 78.4(W) x 373(H)
- Net Weight: 6kg / 7kg
- Gross Weight: 10kg (26.5lbs) / 11kg (24.3lbs)
- Package Size: 645(L) x 210(W) x 513(H) / 730(L) x 240(W) x 550(H)
- Certifications: CE, EN 60601-1-2:2015(V4.0), EN 60601-1-2006 / A1:2013(V3.1)

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

※ All product specifications are subject to change without notice
22", 24" Dual Hot Swappable Battery Medical Cart Computer

**Dimension / Unit: mm**

- 510.0 x 345.8 x 78.4 mm
- 100.0 x 75.0 x 100.0 mm

---

**Ordering Information**

- **VENUS-224-P35-A1-0000**
  - Cart Computer:i5 1135G7.22".Fanless.PCT.TPM
- **VENUS-224-G75-A1-0000**
  - Cart Computer:7505.22".Fanless.TPM
- **VENUS-244-P35-A1-0000**
  - Cart Computer:i5 1135G7.24".Fanless.PCT.TPM
- **VENUS-244-G75-A1-0000**
  - Cart Computer:7505.24".Fanless.TPM

**Optional Accessories**

- **125530120B**
  - 19V medical adapter
- **DDR4-08G-04**
  - DDR4 3200 8GB RAM
- **SSD-256GB-003**
  - (AOH)(TF)M.2 2242 SSD.TLC.256GB
- **9789BAXL14**
  - 2 XL Battery Kit(long).Li-ion 353P.10.95V.Venus/UPower. volume package
- **OPM-C17W-A1**
  - Wifi 6 (intel ax200) for Venus-22x
- **OPM-C15W-A8**
  - WLAN Kit B02.11 a/b/g/n/d . BT 5 . dual band antenna. Intel AC9260
- **OPM-T035-A1**
  - Smart card reader
- **OPM-S02R-A3**
  - RFID (imprivata compatible)
- **OPM-V02C-A1**
  - Hello camera
- **OPM-S09R-A1**
  - Barcode reader
- **OPM-T036-A1**
  - Customize physical button
- **OPM-T037-A1**
  - Alarm LED

---

※ All product specifications are subject to change without notice
Medical Cart Computer

Venus-243

23.8" Dual Hot Swappable Battery Medical Cart Computer

Features

- Highest level of medical safety protection, EMC4.0/Safety 3.1
- Cleanability with Hospital Solvents (front IP65)
- Hot swappable design, support 24/7 run time
- Intel® Skylake Dual-Core i5/i7
- Support remote monitor/control/update (ORION compatible)
- Lightweight design
- Front reading light bar

Specifications

Main Specifications

- Processor: Intel® Skylake Dual-Core i5/i7, Celeron 3955U
- System Memory: DDR4 up to 32GB
- Graphics: Intel® HD Graphics 520
- Storage: SSD up to 512GB (optional)
- Wireless Communication: 802.11ac/a/b/g/n + BT (optional)
- Touch: PCT
- Speaker: 2W x 2
- Security: TPM 2.0 (Trusted Platform Module), Smart Card Reader, RFID ISO 15693/14443A (optional)

Display

- Display Size: 23.8” VA panel
- Resolution: 1920 x 1080
- Max. Colors: 16.7M
- Contrast Ratio: 3000:1
- Luminance (cd/m2): 250

I/O

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

Mechanical and Environmental

- VESA: 75/100 mm VESA mount
- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- Storage Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- Storage Humidity: 10%~95% @ 40°C, non-condensing
- Degree of Protection: Front Panel: IP65; Rear: IPX1
- Dimension: 607(L) x 78(W) x 404(H) mm
- Net Weight without Battery: 8kg (17.6 lbs)
- Packing Size: 730(L) x 240(W) x 550(H) mm
- Gross Weight: 12kg (26.5 lbs)

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

※ All product specifications are subject to change without notice
23.8" Dual Hot Swappable Battery Medical Cart Computer

**Dimension** / Unit: mm

Ordering Information

- **VENUS-243T-A1-1010**
  Cart Computer. i5.6300U, 24" Fanless. PCT. 4G RAM. SCR. TPM. XL Battery x2
- **VENUS-243E-A3-0402**
  Cart Computer. 3955U. 24" Fanless. 4G RAM. SCR. TPM. XL Battery x2

Optional Accessories

- **1255301501**
  Medical Adaptor. 100-240V/1.0-2.5A 24W/6.25A 150W
- **OPM-S02R-A1**
  RFID Reader Kit
- **OPM-C15W-A8**
  WLAN dual band module Kit. Intel 802.11a/b/g/n/ac+BT 5.
- **UP-L62-A1-1010**
  6-Slot Charger + 24W/250W adaptor
- **UP-P22-A2-1010**
  2-Slot Charger + 24V Medical adaptor
- **OPM-V02C-05**
  5MP Camera kit with Mic

※ All product specifications are subject to change without notice
Medical Cart Computer

Venus-243-AMD

23.8" Dual Hot Swappable Battery Medical Cart Computer

Features

- Medical grade certified (EN60601-1/UL60601-1)
- Cleanability with hospital solvents (front IP65/rear IPX1)
- Hot swappable design, support 24/7 run time
- AMD Ryzen™ V1202B / V1605B
- Support remote monitor/control/update (ORION compatible)
- Lightweight design

Specifications

Main Specifications

Processor: AMD Ryzen™ V1202B / V1605B
System Memory: Up to DDR4 32GB
OS Support:
- Microsoft® Windows 10 pro (64bit)
- Microsoft® Windows 10 IoT Enterprise (64bit)
- Ubuntu 18.04 LTS
Storage: Up to 512 GB (optional)
Wireless Communication: 802.11 ac/a/b/g/n + BT 4.0 (optional)
Touch: PCAP
Speaker: 2W x2
Security:
- TPM2.0
- SmartCard Reader
- RFID ISO 15693 / 14443A (optional)

Display

Display Size: 23.8” VA panel
Resolution: 1920 x 1080
Max. Colors: 16.7M
Contrast Ratio: 3000:1
Luminance (cd/m2): 250

I/O

USB:
- Rear I/O: USB 3.0 x2, USB 2.0 x2
- Side I/O: USB 3.0 x2
Video Out: HDMI
COM:
- COM port x2 (isolated optional)
Audio:
- Combo Audio port x1
Security:
- Kensington slot
Ethernet:
- Gigabit LAN x 2
DC-in:
- 24V 2.5mm DC connector x1

Mechanical and Environmental

VESA:
- 75/100 mm VESA mount
Operating Temperature:
- 0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature:
- 20°C ~ 60°C (68°F ~ 140°F)
Storage Humidity:
- 10%~95% @ 40°C, non-condensing
Degree of Protection:
- Front Panel: IP65; Rear: IPX1
Dimension:
- 607(L) x 78(W) x 404(H) mm
Net Weight without Battery:
- 8kg (17.6 lbs)
Packing Size:
- 730(L) x 240(W) x 550(H) mm
Gross Weight:
- 12kg (26.5 lbs)

Certifications:
- FCC: Part 18 Class B
- UL: ANSI/AAMI ES60601-1:2012 (V3.1)
- cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

※ All product specifications are subject to change without notice
23.8" Dual Hot Swappable Battery Medical Cart Computer

**Dimension / Unit: mm**

Venus-243 AMD

**Ordering Information**
- VENUS-243-G12-A1-0402
  Cart Computer: AMD V1202B, 24", 4G, SCR, TPM, XL Battery x2

**Optional Accessories**
- 1255301501
  Medical Adaptor: 100-240V/1.0-2.5A 24V/6.25A 150W
- OPM-S02R-A1
  RFID Reader Kit
- OPM-C15W-A8
  WLAN dual band module Kit. Intel 802.11a/b/g/n/ac +BT 5
- UP-L62-A1-1010
  6-Slot Charger + 24V/250W adaptor
- UP-P22-A2-1010
  2-Slot Charger + 24V Medical adaptor
- OPM-V02C-05
  5MP Camera kit with Mic

※ All product specifications are subject to change without notice
Medical Cart Computer

Venus-223

21.5” Dua Hot Swappable Battery Medical Cart Computer

Features

- Highest level of medical safety protection
- Cleanability with hospital solvents (front IP65)
- Hot swappable design, support 24/7 run time
- Intel® Skylake Dual-Core i5 / Quad-Core j1900
- Support remote monitor/control/update (ORION compatible)
- Lightweight design
- Front reading light bar

Specifications

**MAIN SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Skylake Dual-Core i5 /i7</td>
</tr>
<tr>
<td>System Memory</td>
<td>DDR4 up to 32GB</td>
</tr>
<tr>
<td>OS Support</td>
<td>Microsoft® Windows 7 Microsoft® Windows 8.1 Microsoft® Windows 10 Ubuntu 18.04 LTS (GE++ thin client solution)</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel® HD Graphics 520</td>
</tr>
<tr>
<td>Storage</td>
<td>SSD up to 512GB (optional)</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 ac/ar/b/g/n + BT 4.0 (optional)</td>
</tr>
<tr>
<td>Camera</td>
<td>2MP/5MP camera (optional)</td>
</tr>
<tr>
<td>Touch</td>
<td>PCT, R-T5 (optional)</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W x2</td>
</tr>
<tr>
<td>Security</td>
<td>TPM 2.0</td>
</tr>
<tr>
<td>Smart Card Reader</td>
<td>Smart Card Reader,</td>
</tr>
<tr>
<td></td>
<td>RFID ISO 15693/14443A (optional)</td>
</tr>
</tbody>
</table>

**DISPLAY**

- Display Size: 21.5”VA panel
- Resolution: 1920 x 1080
- Max. Colors: 16.7M
- Contrast Ratio: 1000:1
- Luminance (cd/m2): 250

**I/O**

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

**MECHANICAL AND ENVIRONMENTAL**

- VESA: 351/100 mm VESA mount
- Operating Temperature: -5°C ~ 40°C (23°F ~ 104°F)
- Storage Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- Storage Humidity: 10%~95% (40°C "non-condensing"
- Degree of Protection: Front Panel: IP65; Rear: IPX1
- Dimension: 542(L) x 78(W) x 362(H) mm
- Net Weight: 7kg (15.4 lbs)
- Packing Size: 645(L) x 210(W) x 513(H) mm
- Gross Weight: 11kg (24.3 lbs)
  - FCC: Part 18 Class B
  - UL: ANSI/AAMI ES60601-1-2012 (V3.1)
  - cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OTHERWISE.
## 21.5" Dual Hot Swappable Battery Medical Cart Computer

### Dimension / Unit: mm

<table>
<thead>
<tr>
<th>Drawing of the computer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension specification</td>
</tr>
</tbody>
</table>

### Ordering Information

- **VENUS-223ST-A1-0002**
  - Cart Computer: i5 6300U, 22", Fanless, PCT, SCR, TPM, XL Battery x2

- **VENUS-223ET-A7-1010**
  - Cart Computer: i7, 22", Fanless, R-TS, 4GB RAM, SCR, TPM, XL Battery x2

### Optional Accessories

- **1255301501**
  - Medical Adaptor: 100-240V/1.0-2.5A 24V/6.25A 150W

- **OPM-S02R-A0**
  - RFID Reader Kit

- **OPM-C15W-A8**
  - WLAN dual band module Kit: Intel 802.11a/b/g/n/ac+BT 5

- **UP-L62-A1-1010**
  - 6-Slot Charger + 24V/250W adaptor

- **UP-P22-A2-1010**
  - 2-Slot Charger + 24V Medical adaptor

- **OPM-V02C-04**
  - 5MP Camera kit with Mic

---

*All product specifications are subject to change without notice.*
Medical Cart Computer

Venus-223-AMD
21.5" Dual Hot Swappable Battery Medical Cart Computer

Features

- Medical grade certified (EN60601-1/UL60601-1)
- Cleanability with hospital solvents (front IP65/rear IPX1)
- Hot swappable design, support 24/7 run time
- AMD Ryzen™ V1202B / V1605B
- Support remote monitor/control/update (ORION compatible)
- Lightweight design
- Front reading light bar

Specifications

**Main Specifications**

- **Processor**: AMD Ryzen™ V1202B / V1605B
- **System Memory**: Up to DDR4 32GB
- **OS Support**: Microsoft® Windows 10 pro (64bit) / Microsoft® Windows 10 IOT Enterprise (64bit) / Ubuntu 18.04 LTS
- **Storage**: Up to 512 GB
- **Wireless Communication**: 802.11 ac/a/b/g/n + BT 4.0 (optional)
- **Speaker**: 25W x 2
- **Security**: TPM2.0, SmartCard Reader, RFID ISO 15693 / 14443A (optional)

**Display**

- **Display Size**: 21.5" VA panel
- **Resolution**: 1920 x 1080
- **Max. Colors**: 16.7M
- **Contrast Ratio**: 1000:1
- **Luminance (cd/m²)**: 250

**I/O**

- **USB**: Rear I/O: USB 3.0 x 2, USB 2.0 x 2
  Side I/O: USB 3.0 x 2
- **Video Out**: HDMI
- **COM**: COM port x 2 (isolated optional)
- **Audio**: Combo Audio port x 1
- **Security**: Kensington slot
- **Ethernet**: 100/100Gbps Gigabit LAN x 2
- **DC-in**: 24V 2.5mm DC connector x 1

**Mechanical and Environmental**

- **VESA**: 75/100 mm VESA mount
- **Operating Temperature**: 0°C ~ 40°C (32°F ~ 104°F)
- **Storage Temperature**: -20°C ~ 60°C (4°F ~ 140°F)
- **Storage Humidity**: 10%~95% @ 40°C, non-condensing
- **Degree of Protection**: Front Panel: IP65 ; Rear: IPX1
- **Dimension**: 542(L) x 78(W) x 362(H) mm
- **Net Weight**: 7kg (15.4 lbs)
- **Packing Size**: 645(L) x 210(W) x 513(H) mm
- **Gross Weight**: 11kg (24.3 lbs)

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※ All product specifications are subject to change without notice.
21.5" Dual Hot Swappable Battery Medical Cart Computer

**Dimension / Unit: mm**

Venus-223AMD

**Ordering Information**
- VENUS-223-G12-A1-0402
  Cart Computer: AMD V1202B, 22". 4G RAM, SCR, TPM, XL Battery x2

**Optional Accessories**
- 1255301501
  Medical Adaptor: 100-240V/1.0-2.5A 24V/6.25A 150W
- OPM-S02R-A0
  RFID Reader Kit
- OPM-C15W-A8
  WLAN dual band module Kit. Intel 802.11a/b/g/n/ac +BT 5
- UP-L62-A1-1010
  6-Slot Charger + 24V/250W adaptor
- UP-P22-A2-1010
  2-Slot Charger + 24V Medical adaptor
- OPM-V02C-04
  5MP Camera kit with Mic

※ All product specifications are subject to change without notice
# Medical Cart Computer
## Venus-193
### 19" Dual Hot Swappable Battery Medical Cart Computer

### Features
- Highest level of medical safety protection
- Cleanability with hospital solvents (front IP65)
- Hot swappable design, support 24/7 run time
- Intel® Skylake Dual-Core i5 / Celeron 3955U
- Support remote monitor/control/update (ORION compatible)
- Lightweight design
- Front reading light bar

### Specifications

#### MAIN SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Skylake Dual-Core i5/i7, Celeron 3955U</td>
</tr>
<tr>
<td>System Memory</td>
<td>DDR4 up to 32GB</td>
</tr>
<tr>
<td>OS Support</td>
<td>Microsoft® Windows 7, 8.1, 10 (64bit), Ubuntu 18.04LTs, IGEL (thin client solution)</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel® HD Graphics 520</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 ac/a/b/g/n + BT 4.0 (optional)</td>
</tr>
<tr>
<td>Touch</td>
<td>RT5</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W x2</td>
</tr>
<tr>
<td>Security</td>
<td>TPM 2.0, Smart Card Reader, RFID ISO 15693/14443A (optional)</td>
</tr>
</tbody>
</table>

#### DISPLAY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Size</td>
<td>19&quot; panel</td>
</tr>
<tr>
<td>Resolution</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>Luminance (cd/m²)</td>
<td>250</td>
</tr>
</tbody>
</table>

#### I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB</td>
<td>Rear I/O: USB 3.0 x 2, USB 2.0 x 2; Side I/O: USB 3.0 x 2</td>
</tr>
<tr>
<td>HDMI Out</td>
<td>HDMI 1.4 x 1</td>
</tr>
<tr>
<td>COM Port</td>
<td>COM port x 2</td>
</tr>
<tr>
<td>Audio</td>
<td>Combo audio port x 1</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit LAN x 2</td>
</tr>
<tr>
<td>DC-in</td>
<td>24V DC-in x 1</td>
</tr>
</tbody>
</table>

#### MECHANICAL AND ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA</td>
<td>75/100 mm VESA mount</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C(32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10%~95%/40°C non-condensing</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>Front Panel: IP65; Rear: IPX1</td>
</tr>
<tr>
<td>Dimension</td>
<td>429(L) x 78(W) x 384(H) mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>5.3kg (12.13 lbs)</td>
</tr>
<tr>
<td>Packing Size</td>
<td>540(L) x 215(W) x 503(H) mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>9kg (19.84 lbs)</td>
</tr>
</tbody>
</table>

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*www.onyx-healthcare.com  2023*

*All product specifications are subject to change without notice*
19" Dual Hot Swappable Battery Medical Cart Computer

Dimension / Unit: mm

Ordering Information
- VENUS-193ET-A6-1010
  Cart Computer. i5. 19". Fanless. R-TS. 4GB. SCR. TPM. XL Battery x 2

Optional Accessories
- 1255301501
  Medical Adaptor. 100-240V/1.0-2.5A 24V/6.25A 150W
- OPM-S02R-A2
  RFID Reader Kit
- OPM-C15W-A8
  WLAN dual band module Kit. Intel 802.11a/b/g/n/ac + BT 5
- UP-L62-A1-1010
  6-Slot Charger + 24V/250W adaptor
- UP-P22-A2-1010
  2-Slot Charger + 24V Medical adaptor

- OPM-V02C-04
  5MP Camera kit with Mic

※ All product specifications are subject to change without notice
## Specifications

### OPM-P02T

**2 XL Battery Li-ion** 10.905V 8400mAh

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>3S3P / 9 Cell Li-ion battery</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>10.95V</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>8400mAh / 91.56Wh</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, CE, IEC-60950-1, IEC-62133-1</td>
</tr>
<tr>
<td><strong>MECHANICAL AND ENVIRONMENTAL</strong></td>
<td></td>
</tr>
<tr>
<td>Dimension</td>
<td>122(L) x 79(W) x 50 (H) mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>504g /pcs</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C(32°F ~ 104°F)</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**
- OPM-P02T
- 2 XL Battery Kit. Li-ion 3S3P, 10.905V, 8400mAh. Volume Order

### OPM-P03T

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>3S4P / 12 Cell Li-ion battery</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>10.8V</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>12060mAh / 130.2Wh</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year, 1000 cycle</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, CE, IEC-60950-1, IEC-62133-1</td>
</tr>
<tr>
<td><strong>MECHANICAL AND ENVIRONMENTAL</strong></td>
<td></td>
</tr>
<tr>
<td>Dimension</td>
<td>133(L) x 79(W) x 48 (H) mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>690g (1.52lbs) /pcs</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C(32°F ~ 104°F)</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**
- OPM-P03T
- 2 XXL Battery Kit. Li-ion, 10.8V, 12060mAh. (via Ocean)
Medical Cart Computer

19”~24” Self-Power Cart Computer

Accessory Selection

UP-P22
2-slot battery charger

Features
- Compatible with short battery and long battery (XL)
- Max 100W power output, mini-din 4pin x1LED
- 10W USB port x1 (power output only)
- Battery information monitor remotely (ORION)
- Support wall/cart mount. Fitting all environment
- LED indicator, clearly reveal recharge/discharge status

Ordering Information
- UP-P22-A2-1010
  2-slot charger. 24V medical adaptor

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Charge Time</td>
<td>3hrs for standard battery; 3.5hrs for XL battery</td>
</tr>
<tr>
<td>Input Power</td>
<td>24V Medical adaptor</td>
</tr>
<tr>
<td>Protection</td>
<td>Supports protection from over-voltage (input), over-current (input and output), short circuit, over-charge.</td>
</tr>
<tr>
<td>IO interface</td>
<td>Mini-din 4pin x1; USB Type A x1 (Power output only); USB micro-B x1 (Data transport only); DC-in</td>
</tr>
</tbody>
</table>
| Certification                   | CE: EN 60601-1:2015(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) |
| Color                           | White                                                                       |
| Dimension                       | 191(L) x 64(W) x 117(H) mm                                                 |
| Net Weight                      | 0.67kg (1.47 lbs)                                                          |
| Packing Size                    | 390(L) x 290(W) x 110(H) mm                                                |
| Gross Weight                    | 2kg (4.41 lbs)                                                             |
| Operating Temperature           | 0°C ~ 35°C                   
  -32°F ~ 95°F                   |
| Storage Temperature             | -20°C ~ 60°C                   
  (-4°F ~ 140°F)                |

OPM-P01C
6-slot battery charger

Features
- Battery information monitor remotely (ORION)
- Capable of charging 6 batteries simultaneously
- 6 Independent LED indicators, clearly reveal recharge status
- High-speed recharge and over charge protection

Ordering Information
- OPM-P01C-03
  6-slot charger. 24V/250W adaptor

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Charge Time</td>
<td>2.5 hrs for 85%, 3.5 hrs for 100%</td>
</tr>
<tr>
<td>Input Power</td>
<td>24V Medical adaptor</td>
</tr>
<tr>
<td>Protection</td>
<td>Supports protection from over-voltage (input), over-current (input and output), short circuit, over-charge.</td>
</tr>
<tr>
<td>IO interface</td>
<td>USB Type A x 1(Data transport only), DC-in x 1</td>
</tr>
<tr>
<td>Certification</td>
<td>CE, FCC</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Dimension</td>
<td>354(L) x 154(W) x 41(H) mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>1.16kg (2.56 lbs)</td>
</tr>
<tr>
<td>Packing Size</td>
<td>470(L) x 380(W) x 100(H) mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>3kg (6.61 lbs)</td>
</tr>
</tbody>
</table>
| Operating Temperature           | 0°C ~ 40°C                   
  (-32°F ~ 104°F)               |
| Storage Temperature             | -20°C ~ 60°C                   
  (-4°F ~ 140°F)                |

※ All product specifications are subject to change without notice
MEDICAL POWER PANEL PC

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**

MiniVenus offer high-performance Intel® Core™ U-series processor, which can meet most requirements of medical applications.

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**SWAPPABLE BATTERY DESIGN**

Dual swappable battery design with medical level high-capacity batteries can provide uninterruptible power for a long time.

---

**QUIET, CLEAN & EASY TO MAINTAIN**

Medical Power Panel PCs utilize a fanless heatsink on the back cover to efficiently dissipate heat generated from processor and chipset. The fanless cooling design keeps the environment quiet, clean and lower maintenance efforts.

---

**TPM**

A Trusted Platform Module increase privacy and security utilizing hardware-encryption with files to ensure sensitive information remains safe and secure.

---

**LONG-TERM PRODUCT LIFE SUPPORT**

Onyx provides stable and long-term support to our customer. Customer could focus on business promotion and product development.
Features

- Highest level of medical safety protection, EMC4.0/ Safety 3.1
- Cleanability with hospital solvents
- Hot swappable design, support 24/7 run time
- Intel® Skylake Dual-Core i5
- Support remote monitor/control/update (ORION compatible)
- Isolated LAN / COM port

Specifications

**MAIN SPECIFICATIONS**

- **Processor**: Intel® Skylake Dual-Core i5
- **System Memory**: DDR4 up to 16GB
- **OS Support**:
  - Microsoft® Windows 7 (32bit/64bit)
  - Microsoft® Windows 8.1 (64bit)
  - Microsoft® Windows 10 (64bit)
  - Ubuntu 18.04 LTS
  - IGEL (thin client solution)
- **Graphics**: Intel® HD Graphics 520
- **Storage**: M.2 SSD up to 512GB (optional)
- **Wireless Communication**: 802.11 ac/a/b/g/n + BT 4.0 (optional)
- **Touch**: RT5
- **Speaker**: 3W x 2
- **Security**: TPM 2.0

**DISPLAY**

- **Display Size**: 17"
- **Resolution**: 1280 x 1024
- **Max. Colors**: 16.7M
- **Contrast Ratio**: 1000:1
- **Luminance (cd/m2)**: 250

**I/O**

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

**MECHANICAL AND ENVIRONMENTAL**

- **VESA**: 75/100 mm VESA mount
- **Operating Temperature**: 0°C ~ 35°C/32°F ~ 95°F
- **Storage Temperature**: -20°C ~ 60°C/ -4°F ~ 140°F
- **Storage Humidity**: 10%~95%/40°C, non-condensing
- **Degree of Protection**: IPX1
- **Dimension**: 384(L) x 57(W) x 345(H) mm
- **Net Weight**: 4.5 kg
- **Packing Size**: 510(L) x 200(W) x 480(H) mm
- **Gross Weight**: 5.6 Kg
- **Certifications**:
  - FCC: Part 18 Class B
  - UL: ANSI/AAMI ES60601-1-2012 (V3.1)
  - cUL: CAN/CSA-C22.2 No. 60601-1-2014 (V3.1)

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.
17" Intel i7/i5/i3 Medical Panel PC with Dual Battery

Dimension / Unit: mm

Ordering Information

- VENUS-173-R63-A1-0001
  Mobile Computer, i5 6300U, 17" Fanless, R-TS, TPM, Battery x 2

Optional Accessories

- 1757306039
  Medical Adaptor, 12V/60W
- OPM-C15W-AS
  WLAN dual band module Kit. Intel 802.11a/b/g/n/ac+BT 5
- UP-M62-A1-1010
  6-Slot Charger + 24V / 120W adaptor

※ All product specifications are subject to change without notice
Medical Power Panel PC

Venus-153

15.6” Intel i7/i5/i3 Medical Panel PC with Dual Battery

Features

- Highest level of medical safety protection, EMC4.0/Safety 3.1
- Cleanability with hospital solvents
- Hot swappable design, support 24/7 run time
- Intel® Skylake Dual-Core i5
- Support remote monitor/control/update (ORION compatible)
- isolated LAN / COM port

Specifications

Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Skylake Dual-Core i5 / Celeron 3955U</td>
</tr>
<tr>
<td>System Memory</td>
<td>DDR4 up to 16GB</td>
</tr>
<tr>
<td>OS Support</td>
<td>Microsoft® Windows 7</td>
</tr>
<tr>
<td></td>
<td>Microsoft® Windows 8.1</td>
</tr>
<tr>
<td></td>
<td>Microsoft® Windows 10</td>
</tr>
<tr>
<td></td>
<td>Ubuntu 18.04 LTS</td>
</tr>
<tr>
<td></td>
<td>IGEL (thin client solution)</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel® HD Graphics 520</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2 SSD up to 512GB (optional)</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 ac/b/g/n + BT 4.0 (optional)</td>
</tr>
<tr>
<td>Touch</td>
<td>Project Capacitive Touch / Resistive Touch</td>
</tr>
<tr>
<td>Speaker</td>
<td>3W x2</td>
</tr>
<tr>
<td>Security</td>
<td>TPM 2.0</td>
</tr>
</tbody>
</table>

Display

- Display Size: 15.6”
- Resolution: 1920 x 1080
- Max. Colors: 262K
- Contrast Ratio: 500:1
- Luminance (cd/m2): 220

I/O

- USB: USB 3.0 x2, USB 2.0 x2
- Video Out: HDMI x1
- COM: COM port x1
- Ethernet: Gigabit LAN x2
- DC-in: 12V DC-in x1

Mechanical and Environmental

- VESA: 75x100 mm VESA mount
- Operating Temperature: 0°C ~ 35°C (32°F ~ 95°F)
- Storage Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- Storage Humidity: 10%~95% (40°C, non-condensing)
- Degree of Protection: Front Panel: IP65; Rear: IPX1
- Dimension: 352(L) x 43(W) x 265(H) mm
- Net Weight: 2.7Kg
- Packing Size: 520(L) x 190(W) x 400(H) mm
- Gross Weight: 4.7 Kg
- Certifications:
  - FCC: Part 18 Class B
  - UL: ANSI/AAMI ES60601-1:2012 (V3.1)
  - cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

※ All product specifications are subject to change without notice
15.6” Intel i7/i5/i3 Medical Panel PC with Dual Battery

Dimension / Unit: mm

Ordering Information

- VENUS-153-R63-A1-0001
  Mobile Computer, i5 6300U, 15.6” Fanless, R-TS, TPM, Battery x 2
- VENUS-153-P39-A1-0001
  Mobile Computer, Celeron 3955U, 15.6” Fanless, PCAP, TPM, Battery x 2

Optional Accessories

- 1757306039
  Medical Adaptor, 12V/60W
- OPM-C15W-A5
  WLAN dual band module Kit. Intel 802.11a/b/g/n/ac+BT 5.
- UP-M62-A1-1010
  6-Slot Charger + 24V / 120W adaptor
- OPM-V02C-03
  5MP Camera kit with Mic

※ All product specifications are subject to change without notice
Medical Power Panel PC
Venus-123
11.6" Intel i7/i5/i3 Medical Panel PC with Dual Battery

Features
- Highest level of medical safety protection, EMC4.0/ Safety 3.1
- Cleanability with hospital solvents
- Hot swappable design, support 24/7 run time
- Intel® Skylake Dual-Core i5
- Support remote monitor/control/update (ORION compatible)
- isolated LAN / COM port

Specifications

**Main Specifications**

- **Processor**: Intel® Skylake Dual-Core i5 / Celeron 3955U
- **System Memory**: DDR4 up to 16GB
- **OS Support**:
  - Microsoft® Windows 7
  - Microsoft® Windows 8.1
  - Microsoft® Windows 10
  - Ubuntu 18.04 LTS
  - IGEL (thin client solution)
- **Graphics**: Intel® HD Graphics 520
- **Storage**: M.2 SSD up to 512GB (optional)
- **Wireless Communication**: 802.11 ac/b/g/n + BT 4.0 (optional)
- **Touch**: Project Capacitive Touch / Resistive Touch
- **Speaker**: 2W x2
- **Security**: TPM 2.0

**Display**

- **Display Size**: 11.6"
- **Resolution**: 1366 x 768
- **Max. Colors**: 262K
- **Contrast Ratio**: 500:1
- **Luminance (cd/m2)**: 250

**I/O**

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

**Mechanical and Environmental**

- **VESA**: 75/100 mm VESA mount
- **Operating Temperature**: 0°C ~ 35°C (32°F ~ 95°F)
- **Storage Temperature**: -20°C ~ 60°C (-4°F ~ 140°F)
- **Storage Humidity**: 10% ~ 95% @ 40°C, non-condensing
- **Degree of Protection**: Front Panel: IP65 ; Rear: IPX1
- **Dimension**: 300(L) x 43(W) x 205(H) mm
- **Net Weight**: 1.9 kg
- **Packing Size**: 420(L) x 185(W) x 345(H) mm
- **Gross Weight**: 2.6 kg

**Certifications**

- FCC: Part 18 Class B
- UL: ANSI/AAMI ES60601-1-2012 (V3.1)
- cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

※ All product specifications are subject to change without notice
11.6” Intel i7/i5/i3 Medical Panel PC with Dual Battery

Dimension / Unit: mm

Ordering Information
- VENUS-123-R63-A1-0001
  Mobile Computer, i5 6300U, 11.6” Fanless, R-TS, TPM, Battery x 2
- VENUS-123-P63-A1-0001
  Mobile Computer, i5 6300U, 11.6” Fanless, Pcap, TPM, Battery x 2
- VENUS-123-P39-A1-0001
  Mobile Computer, i5 3955U, 11.6” Fanless, Pcap, TPM, Battery x 2
- UP-M62-A1-1010
  6-Slot Charger + 24V / 120W adaptor
- OPM-V02C-02
  5MP Camera kit with Mic

Optional Accessories
- 1757306039
  Medical Adaptor, 12V/60W
- OPM-C15W-A4
  WLAN dual band module Kit.Intel 802.11a/b/g/n/ac+BT 5.

※ All product specifications are subject to change without notice.
Medical Power Panel PC
12"~ 17" Mini Mobile Computer
Accessory Selection

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

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>253P / 6 Cell Lithium-ion battery</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>7.2V</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>4545 mAh / 32.72Wh</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, CE, IEC-60950-1, IEC-62133-1</td>
</tr>
</tbody>
</table>

#### MECHANICAL AND ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Dimension</td>
<td>127(L) x 60(w) x 21(H) mm</td>
</tr>
<tr>
<td>Net Packing Size</td>
<td>195(L) x 175(w) x 42(H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>305g/pcs</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>0.9kg(1.98 lbs)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C(32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
</tbody>
</table>

### Ordering Information

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

### Optional Accessories

- **OPM-P05T**
  Venus-123/153/173 Battery Packs (2x)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Battery Type</th>
<th>Battery Voltage</th>
<th>Battery Capacity</th>
<th>Warranty</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPM-P05T-A4</td>
<td>Battery Kits (2x) 2S3P/7.2V for Venus-123/153/173</td>
<td>253P / 6 Cell Lithium-ion battery</td>
<td>7.2V</td>
<td>4545 mAh / 32.72Wh</td>
<td>1 year</td>
<td>UL, CE, IEC-60950-1, IEC-62133-1</td>
</tr>
</tbody>
</table>

### Ordering Information

- **OM-P05T-A4**
  Battery Kits (2x) 2S3P/7.2V for Venus-123/153/173
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. UPower Pro-22 include a voltage selection DC-output that allows users to select the desired voltage setting. Users can select from 12, 19, or 24 volts based on their additional power requirements.

**Key Features**

- External DC output (2/4 slot only)
- Selected voltage (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
**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.
Medical Power Bank

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

Features

- Compatible with onyx XL battery and XXL battery (not for STD battery)
- Two mode for user
  - Normal mode: max capacity - 90W/520Wh (with XXL battery)
  - Power mode: max output - 90W/260Wh + 65W/260Wh (with XXL battery)
- 3x DC output
- Selectable voltage for output 1/2 (12V / 15V / 19V / 24V)
- Built-in wifi chip for remote monitor directly
- LED indicator, clearly reveal recharge/discharge status

Specifications

<table>
<thead>
<tr>
<th>MAIN SPECIFICATIONS</th>
<th>UP-43P (Power Bank)</th>
<th>UP-43L (Charger only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Voltage</td>
<td>DC out x3</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Selectable voltage for output 1/2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12/15/19/24V (only one voltage at the same time for one port)</td>
<td></td>
</tr>
<tr>
<td>Output Capacity</td>
<td>Normal mode: share 90W with 2 port</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Power mode: 90W for ch1; 65W for ch2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medical 45W AC output (optional)</td>
<td></td>
</tr>
<tr>
<td>Charge Time</td>
<td>6hrs for XL battery; 8hrs for XXL battery (no charge when power output)</td>
<td>Normal Charge: 8hrs for XL battery; 10hrs for XXL battery; Fast Charge: 3.5hrs for XL</td>
</tr>
<tr>
<td>Function Key</td>
<td>Power Mode Button: Normal(max capacity) Power mode(max output)</td>
<td>Fast Charge Button: normal charge fast charge</td>
</tr>
<tr>
<td></td>
<td>Charge Button: Power output charger</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adaptor holder (optional)</td>
<td>Adaptor holder (optional)</td>
</tr>
<tr>
<td></td>
<td>Cart mount bracket (optional)</td>
<td>Cart mount bracket (optional)</td>
</tr>
<tr>
<td>Extend Function</td>
<td>Adaptor holder (optional)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cart mount bracket (optional)</td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>Supports protection from over-voltage (input), over-current (input and output), short circuit, over-charge.</td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>CE, FCC, IEC60601-1</td>
<td></td>
</tr>
</tbody>
</table>

MECHANICAL AND ENVIRONMENTAL

- Architecture: ABS + PC
- Color: White
- Dimension: 255(L) x 160(W) x 213(H) mm
- Net Weight: 1kg (2.2 lbs) (w/o battery)
- Operating Temperature: 0°C ~ 35°C(32°F ~ 95°F)
- Storage Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- Storage Humidity: 10%~95% @ 35°C, non-condensing

POWER SUPPLY SPECIFICATION

- Input Voltage: 100-240V AC @50-60 Hz
- Output Power: 24V / 250W max

Ordering Information

- UP-43P-A1-1010 (Power Bank)
  4-slot Power Bank: 12/15/19/24V DC output: 24W/250W
- UP-43L-A1-1010 (Charger only)
  4-slot Charger: 24W/250W adaptor
- 9789BAXL14
  8400mAh/10.9V battery x 2
- OPM-P03T-03
  12060mAh/10.8V battery x 2

※ All product specifications are subject to change without notice
# Medical Power Bank

## UPower Pro-22

2-Slot Swappable Battery

### Features

- Compatible with std battery, XL battery and XXL battery
- Max 90W power output, mini-din 4pin x1
- 10W USB port x1 (power output only)
- Selected voltage (12V / 19V / 24V)
- Non-stop, swappable batteries architecture
- Battery information monitor remotely (ORION)
- Support wall/cart mount. Fitting all environment
- LED indicator, clearly reveal recharge/discharge status

### Specifications

#### MAIN SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Voltage</td>
<td>12/19/24V can be selected only one voltage</td>
</tr>
<tr>
<td>Output Capacity</td>
<td>90W mini-din 4pin x1: 10W USB Type A x1 (power output only)</td>
</tr>
<tr>
<td>Battery Charge Time</td>
<td>3hrs for standard battery: 3.5hrs for XL battery: 4.5hrs for XXL battery</td>
</tr>
<tr>
<td>Input Power</td>
<td>24V Medical adaptor</td>
</tr>
<tr>
<td>Protection</td>
<td>Supports protection from over-voltage (input), over-current (input and output), short circuit, over-charge</td>
</tr>
<tr>
<td>IO Interface</td>
<td>Mini-din 4pin x1: USB Type A x1 (Power output only); USB micro-B x1 (Data transport only); DC-in</td>
</tr>
<tr>
<td></td>
<td>FCC: Part 18 Class B</td>
</tr>
<tr>
<td></td>
<td>UL: ANSI/AAMI ES60601-1:2012 (V3.1)</td>
</tr>
<tr>
<td></td>
<td>cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)</td>
</tr>
</tbody>
</table>

#### MECHANICAL AND ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>ABS + PC</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Dimension</td>
<td>191(L) x 64(W) x 117(H) mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.67kg (1.47 lbs)</td>
</tr>
<tr>
<td>Packing Size</td>
<td>390(L) x 290(W) x 110(H) mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>2kg (4.41 lbs)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C(32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10%~95%@35°C, non-condensing</td>
</tr>
</tbody>
</table>

#### BATTERY LED INDICATOR

<table>
<thead>
<tr>
<th>Lighting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Full Charge (AC mode)</td>
</tr>
<tr>
<td>Blue Flashing</td>
<td>Charging (AC mode)</td>
</tr>
<tr>
<td>Green</td>
<td>Capacity 16%~100% (Battery mode)</td>
</tr>
<tr>
<td>Orange</td>
<td>Capacity 8%~15% (Battery mode)</td>
</tr>
<tr>
<td>Purple</td>
<td>Capacity 0%~7% (Battery mode)</td>
</tr>
<tr>
<td>Green-Purple Flashing</td>
<td>Charging error</td>
</tr>
</tbody>
</table>

#### POWER SUPPLY SPECIFICATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>100-240V AC @50-60 Hz</td>
</tr>
<tr>
<td>Output Power</td>
<td>24V / 6.25A</td>
</tr>
</tbody>
</table>

#### BATTERY PACK (OPTIONAL)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>6 / 9 / 12 Cell Lithium-ion battery</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>5700 / 8550 /12060 mAh</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>10.8 / 10.95 / 10.8 V</td>
</tr>
</tbody>
</table>

### Ordering Information

- UP-P22-A3-1010
  - 2-slot Charger with DC output + 24V adaptor

*All product specifications are subject to change without notice*
Medical Power Bank

OPM-P02T
Li-ion 3S3P Battery Pack 10.9V 8400mAh

Features

- Compatible with all Venus-series and all UPower-series
- X1.5 battery capacity increase
- Supports remote management software (ORION)
- Battery capacity indicator button
- Medical grade certified (with Venus)
- Lightweight design

Specifications

Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>3S3P / 9 Cell Li-ion battery</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>10.9V</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>8400mAh</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
</tr>
<tr>
<td>Charging time</td>
<td>3hrs for 90% ; 3.5hrs for 100% (with UPower Pro-series)</td>
</tr>
<tr>
<td>Safety</td>
<td>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)</td>
</tr>
<tr>
<td>Compatible</td>
<td>Venus all series, UPower all series</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, CE, IEC-60950-1, IEC-62133-1</td>
</tr>
</tbody>
</table>

Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>ABS + PC</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Dimension</td>
<td>122(L) x 79(W) x 50 (H) mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.5kg (1.10 lbs)</td>
</tr>
<tr>
<td>Packing Size</td>
<td>220(L) x 180(W) x 80(H) mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>1.3kg (2.87 lbs)</td>
</tr>
</tbody>
</table>

Ordering Information

- 9789BAXL14
  2XL Battery Kit. Li-ion 3S3P, 10.9V, 8400mAh. Volume Order (via Ocean)

All product specifications are subject to change without notice
Medical Power Bank

**OPM-PO3T**

Li-ion 3S4P battery pack. 10.8V. 12060mAh

---

### Features

- 2 Years 1000 cycle warranty
- 130Wh battery capacity
- Smart LED: battery status indicator for end user
- Compatible with all Venus and Upower series

### Specifications

**MAIN SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>3S4P / 12 Cell Li-ion battery</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>10.8V</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>12060mAh</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 year, 1000 cycle</td>
</tr>
<tr>
<td>Charging time</td>
<td>4 hrs with UPower Pro-series</td>
</tr>
<tr>
<td>Safety</td>
<td>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)</td>
</tr>
<tr>
<td>Compatible</td>
<td>Venus all series, UPower all series</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, CE, IEC-60950-1, IEC-62133-1</td>
</tr>
</tbody>
</table>

**MECHANICAL AND ENVIRONMENTAL**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Dimension</td>
<td>137(L) x 79(W) x 48 (H) mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.7kg (1.54lbs)/pcs</td>
</tr>
<tr>
<td>Packing Size</td>
<td>234(L) x 180(W) x 76(H) mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>1.7kg (3.75 lbs)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C (32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10%~95% @35°C, non-condensing</td>
</tr>
</tbody>
</table>

### Ordering Information

Please access to our Webshop for more detail
http://webshop-onyxhealthcare.com

※ All product specifications are subject to change without notice
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 an email). The software manager collects information on the server received from the nursing carts to perform further analysis like battery cycle count or capacity attenuation.

**Key Features**

- Everything Remotely
- Break Up the Whole Into Parts
- To Improve the Quality
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 diagnose and fix system problems.

GROUP SETTINGS
Device settings can be managed and saved by groups so that each department in 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 way that 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 Management Software Package

### MAIN SPECIFICATIONS

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORION Server</td>
<td>+ ORION Manager + ORION Clients</td>
</tr>
<tr>
<td>Description</td>
<td>To get the permission to manage ORION Client remotely</td>
</tr>
</tbody>
</table>

### CORE FUNCTION

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Diagnostics</td>
<td>✓</td>
</tr>
<tr>
<td>Friendly UI</td>
<td>✓</td>
</tr>
<tr>
<td>Remote Backup/Recovery</td>
<td>✓</td>
</tr>
<tr>
<td>Remote Update/Installation</td>
<td>✓</td>
</tr>
<tr>
<td>E-Mail Reporting</td>
<td>✓</td>
</tr>
<tr>
<td>Automated Task Scheduling</td>
<td>✓</td>
</tr>
<tr>
<td>Group Settings</td>
<td>✓</td>
</tr>
<tr>
<td>Real-time Remote Monitoring</td>
<td>✓</td>
</tr>
<tr>
<td>Customizable Dashboard</td>
<td>✓</td>
</tr>
</tbody>
</table>

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORION-A01-V2</td>
<td>ORION Air permission (per client)</td>
</tr>
</tbody>
</table>

### HARDWARE REQUIREMENT

#### ORION SERVER

<table>
<thead>
<tr>
<th>Feature</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>1.6GHz or faster</td>
</tr>
<tr>
<td>RAM</td>
<td>1GB</td>
</tr>
<tr>
<td>Storage</td>
<td>20MB per client for one month record 10G for 500 clients for one month record</td>
</tr>
</tbody>
</table>

#### ORION MANAGER

<table>
<thead>
<tr>
<th>Feature</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>1.6GHz or faster</td>
</tr>
<tr>
<td>RAM</td>
<td>1GB</td>
</tr>
<tr>
<td>Display</td>
<td>DirectX 9-capable video card running at 1024 x 768 or higher display resolution</td>
</tr>
<tr>
<td>OS</td>
<td>Windows 7, Windows 8.1, Windows 10</td>
</tr>
<tr>
<td>Other</td>
<td>Net Framework 4.0 above</td>
</tr>
</tbody>
</table>
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**
The weight of MD101 is less than 1kg, and the compact size design let user can easy to carry the device to anywhere they want.

**10 POINTS PCT TOUCH SCREEN**
Multi-touch has been implemented in several different ways. MD series provides 10 points touch functions to the user to do any control missions.

**WINDOWS OS SUPPORT**
MD series is supported by Windows OS which has good compatibility to the other medical device. The same windows user interface let user can easy to make use of the device.

**WI-FI AND BLUETOOTH 5.0 SUPPORT**
MD series has designed Wi-Fi 802.11b/g/n/AC and 2.4GHz/ BT 5.0 inside. It help user easy to receive and deliver the medical data to other devices.

**LONG TERM PRODUCT LIFE TIME SUPPORT**
ONYX provides stable and long term support to our customers. Customers could focus on business promotion and product development.
Mobile Medical Tablet

MD116/MD116I

12” Fanless Intel ATOM / i5 Medical Tablet

Features

- Intel® Apollo Lake processor / Kaby lake U processor
- Dual hot-swappable batteries for 24/7 operation
- Dual smart card readers for multiple-care workflow
- Standard USB Type-A and RJ45 for easy connection to medical devices
- IPS4 certified & 3 feet drop resistant
- ORION client compatible
- Instant vehicle docking system
- Automotive Directive and EN1789 compliance for ambulances/medical transportation vehicles

Specifications

Main Specifications

<table>
<thead>
<tr>
<th>MD116</th>
<th>MD116I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Apollo Lake Processor</td>
</tr>
<tr>
<td>System Memory</td>
<td>DDR3L SO-DIMM x1, Default 4 GB (Up to 8 GB)</td>
</tr>
<tr>
<td>OS Support</td>
<td>Microsoft® Windows 10 IOT LTSB</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2 interface x1, Default 64 GB</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 a/b/g/n/AC + BT5.0 (Optional)</td>
</tr>
<tr>
<td>Camera</td>
<td>2 MP (Front) / 5 MP (Rear) (optional)</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>Projected Capacitive Touchscreen, w/Gorilla Glass</td>
</tr>
<tr>
<td>Digital Accelerometer</td>
<td>ADI ADXL345</td>
</tr>
<tr>
<td>Ambient Light Sensor</td>
<td>TAOS TSL2581</td>
</tr>
<tr>
<td>Function Keys</td>
<td>x2</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>x2</td>
</tr>
<tr>
<td>Internal Mic</td>
<td>x1</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12V</td>
</tr>
<tr>
<td>Security</td>
<td>Smart Card Reader x2, RFID x1 (optional)</td>
</tr>
</tbody>
</table>

Display

- Display Size: 11.6” 16:9 Widescreen LED Panel
- Resolution: FHD 1920 x 1080
- Max. Colors: 16.7M
- Contrast Ratio: 800:1
- Luminance (cd/m2): 300 nits / 600 nits

I/O

- USB: USB 3.0 (Type-A) x1, USB 2.0 (Type-A) x1
- Ethernet: Gigabit LAN x1
- DC-In: DC-in Jack x1
- Docking: Docking Connector x1

Battery Pack

- Battery Type: Li-ion
- Battery Capacity: 4545 mAh (32.72Wh) x2
- Battery Run Time: Approx. 8 hrs / Approx. 3.5 hrs

Mechanical and Environmental

- VESA: 75 via docking station
- Degree of Protection: IP54
- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F) / 0°C ~ 35°C (32°F ~ 95°F)
- Storage Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- Storage Humidity: 10% ~ 95% @ 40°C, non-condensing
- Dimensions: 312 (W) x 239 (H) x 37 (D) mm
- Packing Size: 400 x 345 x 160 mm
- Gross Weight: 3 kg (6.6 lb)
- Net Weight: Approx. 1.45~1.8 kg (3.2 lb~3.97 lb)

Certifications

- 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)

*All product specifications are subject to change without notice.*
12" Fanless Intel ATOM / i5 Medical Tablet

Ordering Information

ONXY-MD116ST-A1-1010
Tablet: N4200.11.6". FHD. 300 nits. C-TS(G). 4G RAM. M.2 64GB. F/R-Camera. SCR. RFID. WiFi/BT. Battery

ONXY-MD116ST-A1-1011
Tablet: N4200.11.6". FHD. 600 nits. C-TS(G). 4G RAM. M.2 64GB. F/R-Camera. SCR. RFID. WiFi/BT. Battery

ONXY-MD116ST-A1-1012
Tablet: N4200.11.6". FHD. 300 nits. C-TS(G). 4G RAM. M.2 64GB. WiFi/BT. Battery (NURSE CART)

ONXY-MD116I-P73-A1-0001
Tablet: i5-7300U. 11.6". FHD. 300 nits. C-TS(G). F/R-Camera. SCR. RFID. WiFi/BT. Battery (x2)

ONXY-MD116I-P73-A1-0002
Tablet: i5-7300U. 11.6". FHD. 600 nits. C-TS(G). F/R-Camera. SCR. RFID. WiFi/BT. Battery (x2)

ONXY-MD116I-P73-A1-0003
Tablet: i5-7300U. 11.6". FHD. 300 nits. C-TS(G). WiFi/BT. Battery (x2). (NURSE CART)

Optional Accessories

1255200900
Medical Adaptor: AC/DC. 100-240V.1.5A. 12V/7.5A. 90W.

OPM-S08R-A1
RFID Reader Kit. for MD116 Series

OPM-V05C-A1
2MP-5MP Camera with Mic Kit. for MD116 Series

OPM-T030-A1
Smart Card Reader Kit. for MD116 Series

OPM-A001-A1
Gorilla touch
Mobile Medical Tablet
MD101
10.1” Rugged Medical Tablet

Features
- Intel® Cherry Trail processor
- Slim & lightweight design for clinical mobility
- Long battery life for intensive care services
- Standard USB Type-A for easy connection to medical devices
- IP54 certified & 1.5 Meter drop resistant
- ORION client compatible
- VESA mounting via adapter
- EN60601-1 Certified
- Ergonomic design adapted for portable and cart use
- Windows 10 / Android 6.0

Specifications

<table>
<thead>
<tr>
<th>MAIN SPECIFICATIONS</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Cherry Trail QC Processor Z8350 1.44 GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>4 GB</td>
</tr>
<tr>
<td>OS Support</td>
<td>Microsoft® Windows 10 IoT LTSC 2019, Android 6.0</td>
</tr>
<tr>
<td>Storage</td>
<td>eMMC 128 GB</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 a/b/g/n/ac +BT 5.0</td>
</tr>
<tr>
<td>Camera</td>
<td>2 MP (Front)/ 8 MP (Rear)</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>Projected Capacitive touchscreen, w/Gorilla Glass</td>
</tr>
<tr>
<td>Accelerometer Sensor</td>
<td>ST LIS2DW12</td>
</tr>
<tr>
<td>Ambient Light Sensor</td>
<td>Capella CM32181E</td>
</tr>
<tr>
<td>Power Button</td>
<td>x1</td>
</tr>
<tr>
<td>Volume Keys</td>
<td>x2</td>
</tr>
<tr>
<td>Speakers</td>
<td>2 W x2, 98±3dB</td>
</tr>
<tr>
<td>Internal Mic</td>
<td>x1</td>
</tr>
<tr>
<td>Alarm Light</td>
<td>x1 (Optional)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 15 V</td>
</tr>
</tbody>
</table>

DISPLAY
- Display Size: 10.1” 16:10 Wide Screen LED Panel
- Resolution: 1920 x 1200
- Max. Colors: 16.7 M
- Contrast Ratio: 800:1
- Luminance (cd/m2): 380 nits

I/O
- USB: USB 3.0 (Type-A) x1
- Audio Out / Mic In: 3.5 mm Combo Audio Jack x1
- Video Out: Micro HDMI x1
- DC-In: x1

BATTERY PACK
- Battery Type: Li-ion
- Battery Capacity: 4530 mAh (48.9 Wh)
- Battery Run Time: Approx. 8 hrs

MECHANICAL AND ENVIRONMENTAL
- VESA: VESA 75 via cradle
- Degree of Protection: IP54
- Operating Temperature: 0° C ~ 40° C (32° F ~ 104° F)
- Storage Temperature: -20° C ~ 60° C (4° F ~ 140° F)
- Storage Humidity: 10%~95% @45°C, non-condensing
- Dimension: 260 (W) x 186 (H) x 23 (D) mm
- Packing Size: 310 x 220 x 110 mm
- Gross Weight: 2 kg (4.4 lb)
- Net Weight: Approx. 1.5 kg (3.3 lb)

Certifications
- EN 300 328(V2.1.1), EN 301 893 (V2.1.1)
- FCC: Part 15 Class B, Part 15 C/E

※ All product specifications are subject to change without notice
### 10.1” Rugged Medical Tablet

**Dimensions / Unit: mm**

![Dimensions Diagram]

**Ordering Information**

- **ONYX-MD101ST-A2-2010**
  Tablet. Z8350. 10.1” FHD. C-TS(G). 4GB RAM. 128GB eMMC. F/R-Camera. HDMI-Out. WiFi/BT. AL without OS.
- **ONYX-MD101ST-A2-2011 (optional)**

**Optional Accessories**

- **1255300369**
  Medical Power Adaptor: 100 – 240V. 15V. 2.4A. 36W.
Mobile Medical Tablet

MD116 Accessory Selection

Vehicle Dock
OPM-T016-A3

Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Vehicle Dock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>12V</td>
</tr>
<tr>
<td>Installations</td>
<td>VESA 75</td>
</tr>
<tr>
<td>IO</td>
<td>2x USB 2.0 Type-A</td>
</tr>
<tr>
<td></td>
<td>1x RJ45</td>
</tr>
<tr>
<td></td>
<td>1x Line Out</td>
</tr>
<tr>
<td></td>
<td>1x Phoenix Port</td>
</tr>
<tr>
<td></td>
<td>1x DC In Jack</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimensions</td>
<td>236.89 x 293.03 x 88.22mm</td>
</tr>
<tr>
<td>Weight</td>
<td>800g</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C(32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
</tbody>
</table>

Optional Accessories

- OPM-T016-A3
  MD116 Vehicle Docking Plus . USB x2 /LAN / Line out

Office Dock
OPM-T022-A1

Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OPM-T022-A1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Office Dock</td>
</tr>
<tr>
<td>Input Power</td>
<td>12V</td>
</tr>
<tr>
<td>Installations</td>
<td>Stationary</td>
</tr>
<tr>
<td>IO</td>
<td>2x USB 2.0 Type-A</td>
</tr>
<tr>
<td></td>
<td>1x RJ45</td>
</tr>
<tr>
<td></td>
<td>1x RS-232</td>
</tr>
<tr>
<td></td>
<td>1x DC-In</td>
</tr>
<tr>
<td></td>
<td>Video out (optional)</td>
</tr>
<tr>
<td></td>
<td>1x HDMI, 1x DP</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Steady Green: Connection</td>
</tr>
<tr>
<td></td>
<td>LED Off: Disconnection</td>
</tr>
<tr>
<td>Dimensions</td>
<td>354 x 117 x 78.2mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1060g</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C(32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
</tbody>
</table>

Optional Accessories

- OPM-T022-A1
  MD116 Office Dock
- OPM-T022-A2
  MD116 Office Dock HDMI
- OPM-T022-A3
  MD116 Office Dock DP
Mobile Medical Tablet

MD116 Accessory Selection

**VESAD Cradle**
OPM-T021-A1

![VESA Cradle](image)

### Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>VESA Cradle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>N/A</td>
</tr>
<tr>
<td>Installations</td>
<td>VESA 75</td>
</tr>
<tr>
<td>IO</td>
<td>N/A</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimensions</td>
<td>206.69 x 196.64 x 87.8mm</td>
</tr>
<tr>
<td>Weight</td>
<td>395g</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C (32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (-4°F ~ 140°F)</td>
</tr>
</tbody>
</table>

### Optional Accessories

- OPM-T021-A1
  MD116 VESA Cradle

※ All product specifications are subject to change without notice
Mobile Medical Tablet

MD116 Accessory Selection

Battery Pack x2
OPM-P05T

Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>253P / 6 Cell Lithium-ion battery</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>7.2V</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>4545 mAh / 32.72Wh</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, CE, IEC-60950-1, IEC-62133-1</td>
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</tbody>
</table>

MECHANICAL AND ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimension</td>
<td>127(L) x 60(w) x 21(H) mm</td>
</tr>
<tr>
<td>Net Packing Size</td>
<td>199(L) x 175(w) x 42(H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>305g/pcs</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>0.9kg (1.98 lbs)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C (32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (-4°F ~ 140°F)</td>
</tr>
</tbody>
</table>

Ordering Information

- OPM-P05T-A2
  2 Battery Kits, 253P, 7.2V, Onyx MD116, Volume Package

Battery Charger
UP-M62

Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Battery Charger</td>
</tr>
<tr>
<td>Input Power</td>
<td>24V</td>
</tr>
<tr>
<td>Installations</td>
<td>Stationary</td>
</tr>
<tr>
<td>IO</td>
<td>1x Micro USB (Client)</td>
</tr>
<tr>
<td></td>
<td>1x DC-In</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Flickering Blue: Battery Charging</td>
</tr>
<tr>
<td></td>
<td>Steady Blue: Battery Fully Charged</td>
</tr>
<tr>
<td></td>
<td>Flickering Purple Green: Error</td>
</tr>
<tr>
<td>Dimensions</td>
<td>245.95 x 124.64 x 143.65mm</td>
</tr>
<tr>
<td>Weight</td>
<td>860g</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C (32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (-4°F ~ 140°F)</td>
</tr>
</tbody>
</table>

Optional Accessories

- UP-M62-A1-1010
  MD116 6-slots Charger

※ All product specifications are subject to change without notice.
Mobile Medical Tablet

MD116 Accessory Selection

Desk Stand
OPM-H26S

Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Desk Stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Installations</td>
<td>MD116 / MD116i Screw hole</td>
</tr>
<tr>
<td>IO</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimensions</td>
<td>250 x 153 x 126.2 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>500g</td>
</tr>
<tr>
<td>Minimum</td>
<td></td>
</tr>
<tr>
<td>Package Size</td>
<td>610 x 240 x 330 mm (Incl.5pcs)</td>
</tr>
<tr>
<td>Minimum</td>
<td></td>
</tr>
<tr>
<td>Package Weight</td>
<td>3 kg (Incl.5pcs)</td>
</tr>
<tr>
<td>Storage</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
</tbody>
</table>

Optional Accessories

- OPM-H26S-A1
  MD116 Desk Stand
PROFESSIONAL MEDICAL ALL IN ONE PC

Zeus is the symbol of strength and power, and so does our Medical Station Zeus. It was designed to fulfill surgical high spec requirements such as OR, ICU, ER and Reading Room. Zeus’s isolated ports are extremely important as they will connect to devices that are directly connected to the patient. Onyx has spent two years developing the new Zeus Series, the Smart View Medical Station, and it gives doctors crystal clear imaging when viewing PAC, ENDO, or just EMR. Other than surgical suite, Zeus all in one high performance spec will also benefit in ambulatory care, telemedicine, and administration.

Key Features

- **24”/22”/19” Medical Grade panel.** Compared to a normal monitor or industrial LCD, Zeus has rich color content and high contrast ratio. extremely vivid.
- **Capacitive Multi-touch screen.** It guarantees double OR gloves usage, 10 billion click life and up to 95% transparency rate. Zeus enhance the screen performance over 15%.
- **Flat and edgeless ID design** give doctors the best-in-market user interaction experience. White color bezel makes cleaning very easy.
- **Patented smart multi function OSD keys** covers up to 10 features for Reading light, display mode, speaker volume, LCD brightness, etc. Zeus can also offer customization.
DICOM Compliance Display
Zeus supports DICOM Part 14: Grayscale Standard Display Function to display accurate radiology PACS images such as ultrasound, endoscope, CT and MRI images. Users can switch the system from HIS, EMR to PACS or Endo with ease.

MIS with Remote Control Power
Onyx’s cooperation with Intel allows Zeus to carry iAMT technology. The MIS manager can handle hundreds, even thousands of Zeus stations from the central room in real time. Hospital IT departments can save huge amounts of time and money on routine maintenance.

Triple Isolation Protection to Patient
Medical isolation rating is 4kV rms (IEC 60601-1), which is crucial to protect patients, operators and medical equipment from harmful surges or spikes in the electrical signal. Zeus offers COM port, USB port and Ethernet Port isolation. We set the highest standard for patient and medical uses.

Backup Battery for Uninterruptible Power Supply
Optional built-in battery provides backup power supply for at least 10 minutes to prevent the system from unexpected power disruption.

Full SDK for Enhanced Functions Development
ONYX offers “Access Manager”, “Power Monitor”, “Control Kit”, “Security Watcher” to let system integrators to quickly and efficiently create enhanced and customized environment.

Super 3.0 for USB, SATA and PCI-E
Still looking for a faster solution to upload or download medical records?! Zeus comes with latest high speed I/O design (USB3.0, SATA3.0, PCI-E3.0). Super 3.0 gives ten times data rate than before.

Intel® Quad Core i7 Platform for Critical Applications
Zeus Series offer ultra high performance Intel® Core i7 LV Dual Core /Quad Core Smart View Medical Station.

Professional Medical All in One PC
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Full SDK for Enhanced Functions Development
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Professional Medical All in One PC

ZEUS-248

24” Fanless 7th Generation Core i7 Professional Medical All in One PC

Features

- Intel® 7th Generation Core i7-7600U 3.9GHz Dual Core Processor
- 24” 250-nit Full HD High Contrast MVA LCD
- Supports DDR4 SODIMM up to 32GB
- Capacitive Multi-Touch Screen
- Easy Cleaning Flat Screen
- 10 Programmable Function Keys with Dual Colors LED Status Indication
- LAN/USB(optional)/COM(optional) Medical Isolation
- Super Speed 10Gb/s USB 3.1 Port
- PCI Express(x4) x 1, PCI Express[x1] x1(optional)
- Trusted Platform Module / Smart Card Reader(optional) / RFID Reader(optional)
- Remote Management: Intel Active Management Technology
- +12V to +24V wide range DC input / 100V to 240V AC input
- 25Wh Backup Battery(optional)

Specifications

MAIN SPECIFICATIONS

Processor Intel® 7th Generation Core i7-7600U 3.9GHz Dual Core
System Memory DDR4 SODIMM up to 32GB
Expansion PCI Express[x4] x 1, PCI Express[x1] x1(optional)
Storage Disk Drive 2.5” SATA Hard Disk Drive/SSD x 1
Slim DVD-RW Drive x 1(optional) M.2 SSD x 1
Security Trusted Platform Module, Smart Card Reader(optional), RFID(optional)
Wireless Communication 802.11ac(optional), Bluetooth 5.1 (optional)
Speaker 5W x 2
Function Key Speaker Volume Up/Down, LCD Brightness Up/Down, LCD On/Off, Touch Screen On/Off, DICOM Mode(optional), Reading Light On/Off
Power Requirement DC 12-24V / AC 100~240V , 25Wh Back Up Battery(optional)
OS Support Windows® 10, Linux®

DISPLAY

Size 24” LCD
Resolution 1920 x 1080
Luminance 250 nits
View Angle 178˚(H)/178˚(V)
Contrast Ratio 3000:1
Back Light Life Time 30,000 Hours
Touch Screen Capacitive Multi-Touch

I/O

USB USB 3.0 x 4, USB 3.1 x 2 (on side I/O), Isolated USB 2.0 x1(optional)
Serial Port Isolated RS-232 x 2(optional)
Ethernet Isolated Gigabit LAN x 2
Audio Micro(optional)/ Line out(optional)
Video out Display Port 1.2 x 1 (optional)

MECHANICAL AND ENVIRONMENTAL

Power Consumption Full Loading: 60 Watts
Operating Temperature 0°C ~ +40°C(32°F ~ 104°F)
Storage Temperature -20°C ~ +60°C(-4°F ~ 140°F)
Mounting YESA 75/100 mm
Degree of Protection IP55 in the front, IP54 in the back
Dimension 600 x 415 x 65 mm
Package Size 790 x 220 x 350 mm
Gross Weight 14 kg (30.86 lb)
Net Weight 9.2kg (20.28lb)

FCC: Part 18 Class B
UL: ANSI/AMERICAN NATIONAL STANDARD 60601-1:2012 (V3.1)
CUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

※ All product specifications are subject to change without notice
24” Fanless 7th Generation Core i7 Professional Medical All in One PC

### Ordering Information

- **ZEUS-248ST-A25-1010**
  - i7-7600U, 24” LCD, 12~24V DC, Capacitive Touch
- **ZEUS-248ST-A26-1010**
  - i5-7300U, 24” LCD, 12~24V DC, Capacitive Touch
- **ZEUS-248ST-B25-1010**
  - i7-7600U, 24” LCD, 100~240V AC, Capacitive Touch
- **ZEUS-248ST-B26-1010**
  - i5-7300U, 24” LCD, 100~240V AC, Capacitive Touch

### Optional Accessories

- **1255301202**
  - Medical Power Adapter, 120W, 24V
- **OPM-C15W-A6**
  - WLAN Kit, IEEE 802.11ac + Bluetooth 5.1
- **OPM-T003-A5**
  - Slim Slot-in DVD-RW Drive
- **OPM-T006-A1**
  - Smart Card Reader Kit
- **OPM-P09C-A3**
  - 25Wh Backup Battery
- **OPM-C02C-A4**
  - Two Isolated RS-232 PCIe Card
- **OPM-C02C-A3**
  - One Isolated USB 2.0 + Two Isolated R-232 PCIe Card
- **OPM-V03B-A1**
  - One Display Port + Two RS-232 Kit
- **OPM-V03B-A2**
  - One Display Port Kit
- **OPM-T017-A5**
  - Hot Swap Rack w/Lock Kit for 2.5" HDD/SSD
- **OPM-T012-A2**
  - Two RS-232 Kit
- **OPM-V04B-A1**
  - DICOM Kit
- **OPM-R02X-A1**
  - PCI Express [X1] Riser Kit
- **OPM-U01T-A1**
  - Line-out/Line-in/Mic Kit
- **OPM-S07R-A9**
  - RFID Reader Kit
- **OPM-U02T-A2**
  - One RS-232 + Line-out/Line-in/Mic Kit
Professional Medical All in One PC

ZEUS-228

22" Fanless 7th Generation Core i7 Professional Medical All in One PC

Features

- Intel® 7th Generation Core™ i7-7600U 3.9GHz Dual Core Processor
- 22" 250nits Full HD High Contrast LCD
- Support DDR4 SODIMM up to 32GB
- Capacitive Multi-Touch Screen
- Easy Cleaning Flat Screen
- 10 Programmable Smart Function Keys with Dual Colors LED Status Indication
- LAN /USB (optional)/COM(optional) Medical Isolation
- Super Speed 10Gbs USB 3.1 Port
- PCI Express[x4] x 1, PCI Express[x1] x1(optional)
- Trusted Platform Module/Smart Card Reader(optional)/RFID Reader(optional)
- Remote Management : Inte Active management Technology
- +12V to +24V Wide Range DC Input / 100V to 240V AC input
- 25Wh Backup Battery (optional)

Specifications

### MAIN SPECIFICATIONS

**Processor**
- Intel® 7th Generation Core™ i7-7600U 3.9GHz Dual Core

**System Memory**
- DDR4 SODIMM up to 32GB

**Expansion**
- PCI Express[x4] x 1, PCI Express[x1] x1(optional)

**Storage Disk Drive**
- 2.5” SATA Hard Disk Drive/SSD x 1
- Slim DVD-RW Drive x 1(optional)
- M.2 SSD x 1

**Security**
- Trusted Platform Module, Smart Card reader(optional), RFID reader(optional)

**Wireless Communication**
- 802.11ac(optional), Bluetooth 5.1 (optional)

**Speaker**
- 5W x 2

**Function Key**
- Speaker Volume Up/Down, LCD Brightness Up/Down, LCD On/Off, Touch Screen On/Off, DICOM Mode(optional), Reading Light On/Off

**Power Requirement**
- DC12-24V, AC 100~240V, 25Wh Backup Battery(optional)

**OS Support**
- Windows® 10, Linux®

### DISPLAY

**Size**
- 22" LCD

**Resolution**
- 1920 x 1080

**Luminance**
- 250 nits

**View Angle**
- 178˚(H)/178˚( V )

**Contrast Ratio**
- 1000:1

**Back Light Life Time**
- 50,000 Hours

**Touch Screen**
- Capacitive Multi-Touch

### I/O

**USB**
- USB 3.0 x 4, USB 3.1 x 2(side I/O)
- Isolated USB 2.0(optional)

**Serial Port**
- Isolated RS-232 x 2(optional)

**Ethernet**
- Isolated Gigabit LAN x 2

**Video out**
- Display Port 1.2 x 1(optional)

### MECHANICAL AND ENVIRONMENTAL

**Power Consumption**
- Full Loading: 55 Watts

**Operating Temperature**
- 0°C ~ 40°C (32°F ~ 104°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**
- 546 x 352 x 66mm

**Package size**
- 750 x 220 x 490 mm

**Gross Weight**
- 12 kg (26.45 lb)

**Net Weight**
- 8kg (17.6lb)

**Certifications**
- FCC: Part 18 Class B
- UL: ANSI/AMI ES60601-1:2012 (V3.1)
- cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

※ All product specifications are subject to change without notice
22” Fanless 7th Generation Core i7 Professional Medical All in One PC

**Dimension / Unit: mm**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>mm</td>
<td>546.0</td>
</tr>
<tr>
<td>Height</td>
<td>mm</td>
<td>66.0</td>
</tr>
<tr>
<td>Depth</td>
<td>mm</td>
<td>35.1</td>
</tr>
</tbody>
</table>

**Ordering Information**

- **ZEUS-228ST-A25-1010**
  - i7-7600U, 22” LCD, 12~24V DC, Capacitive Touch
- **ZEUS-228ST-A26-1010**
  - i5-7300U, 22” LCD, 12~24V DC, Capacitive Touch
- **ZEUS-228ST-B25-1010**
  - i7-7600U, 22” LCD, 100~240V AC, Capacitive Touch
- **ZEUS-228ST-B26-1010**
  - i5-7300U, 22” LCD, 100~240V AC, Capacitive Touch

**Optional Accessories**

- **OPM-V03B-A2**
  - One Display Port Kit
- **OPM-T017-A1**
  - Hot Swap Rack w/Lock Kit for 2.5” HDD/SSD
- **OPM-T012-A2**
  - Two RS-232 Kit
- **OPM-V04B-A2**
  - DICOM Kit
- **OPM-R02X-A1**
  - PCI Express [X1] Riser Kit
- **OPM-U01T-A1**
  - Line-out/Line-in/Mic Kit
- **OPM-S07R-A8**
  - RFID Reader Kit
- **OPM-U02T-A2**
  - One RS-232 + Line-out/Line-in/Mic Kit

- **OPM-C15W-A6**
  - WLAN Kit, IEEE 802.11ac + Bluetooth 5.1
- **OPM-T003-A4**
  - Slim Slot-in DVD-RW Drive
- **OPM-T006-A1**
  - Smart Card Reader Kit
- **OPM-P09C-A2**
  - 25Wh Backup Battery
- **OPM-C02C-A4**
  - Two Isolated RS-232 PCIe Card
- **OPM-C02C-A3**
  - One Isolated USB 2.0 + Two Isolated R-232 PCIe Card
- **OPM-V03B-A1**
  - One Display Port + Two RS-232 Kit
- **ZEUS-228ST-A25-1010**
  - i7-7600U, 22” LCD, 12~24V DC, Capacitive Touch
- **ZEUS-228ST-A26-1010**
  - i5-7300U, 22” LCD, 12~24V DC, Capacitive Touch
- **ZEUS-228ST-B25-1010**
  - i7-7600U, 22” LCD, 100~240V AC, Capacitive Touch
- **ZEUS-228ST-B26-1010**
  - i5-7300U, 22” LCD, 100~240V AC, Capacitive Touch

- **OPM-V03B-A2**
  - One Display Port Kit
- **OPM-T017-A1**
  - Hot Swap Rack w/Lock Kit for 2.5” HDD/SSD
- **OPM-T012-A2**
  - Two RS-232 Kit
- **OPM-V04B-A2**
  - DICOM Kit
- **OPM-R02X-A1**
  - PCI Express [X1] Riser Kit
- **OPM-U01T-A1**
  - Line-out/Line-in/Mic Kit
- **OPM-S07R-A8**
  - RFID Reader Kit
- **OPM-U02T-A2**
  - One RS-232 + Line-out/Line-in/Mic Kit
**Features**

- Intel® 7th Generation Core i7-7600U 3.9GHz Dual Core Processor
- 19" 250-nit SXGA LCD
- Supports DDR4 SODIMM up to 32GB
- Capacitive Multi-Touch Screen
- Easy Cleaning Flat Screen
- 10 Programmable Smart Function Keys with Dual Colors LED Status Indication
- LAN/USB(optional)/COM(optional) Medical Isolation
- Super Speed 10Gb/s USB 3.1 Port
- PCI Express(x4) x 1, PCI Express(x1) x1(optional)
- Trusted Platform Module / Smart Card Reader(optional) / RFID Reader (optional)
- Remote Management: Intel Active Management Technology
- +12V to +24V wide range DC input
- 25Wh Backup Battery(optional)

**Specifications**

### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Intel® 7th Generation Core i7-7600U 3.9GHz Dual Core</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>DDR4 SODIMM up to 32GB</td>
</tr>
<tr>
<td><strong>Expansion</strong></td>
<td>2.5&quot; SATA Hard Disk Drive/SSD x 1, Slim DVD-RW Drive x 1, M.2 SSD x 1</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Trusted Platform Module, Smart Card reader(optional), RFID(optional)</td>
</tr>
<tr>
<td><strong>Wireless Communication</strong></td>
<td>802.11a(optional), Bluetooth 5.1 (optional)</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td>5W x 2</td>
</tr>
<tr>
<td><strong>Function Key</strong></td>
<td>Speaker Volume Up/Down, LCD Brightness Up/Down, LCD On/Off, Touch Screen On/Off, DICOM Mode(optional), Reading Light On/Off</td>
</tr>
<tr>
<td><strong>Power Requirement</strong></td>
<td>DC 12–24V, 25Wh Back Up Battery(optional)</td>
</tr>
<tr>
<td><strong>OS Support</strong></td>
<td>Windows® 10, Linux®</td>
</tr>
</tbody>
</table>

### Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>19&quot; LCD</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1280x1024</td>
</tr>
<tr>
<td><strong>Luminance</strong></td>
<td>250 nits</td>
</tr>
<tr>
<td><strong>View Angle</strong></td>
<td>170˚ (H)/160˚ (V)</td>
</tr>
<tr>
<td><strong>Contrast Ratio</strong></td>
<td>1000:1</td>
</tr>
<tr>
<td><strong>Back Light Life Time</strong></td>
<td>30,000 Hours</td>
</tr>
<tr>
<td><strong>Touch Screen</strong></td>
<td>Capacitive Multi-Touch</td>
</tr>
</tbody>
</table>

### I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USB</strong></td>
<td>USB 3.0 x 4, USB 3.1 x 2 (on side I/O), Isolated USB 2.0 x1(optional)</td>
</tr>
<tr>
<td><strong>Serial Port</strong></td>
<td>Isolated RS-232 x 2 (optional)</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>Isolated Gigabit LAN x 2</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>Mic(optional)/ Line out(optional)</td>
</tr>
<tr>
<td><strong>Video out</strong></td>
<td>Display Port x 1, x 2 (optional)</td>
</tr>
</tbody>
</table>

### Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Consumption</strong></td>
<td>Full Loading: 55 Watts</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-20°C ~ 50°C</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-20°C ~ 60°C</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>VESA 75/100mm</td>
</tr>
<tr>
<td><strong>Degree of Protection</strong></td>
<td>IP54 in the front, IP64 in the back</td>
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<tr>
<td><strong>Dimension</strong></td>
<td>450 x 388 x 66 mm</td>
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<td><strong>Package Size</strong></td>
<td>640 x 220 x 620mm</td>
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<td><strong>Gross Weight</strong></td>
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<td><strong>Net Weight</strong></td>
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<td></td>
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<td></td>
<td>UL: ANSI/AAMI ES60601-1:2012 (V3.1)</td>
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<tr>
<td></td>
<td>cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)</td>
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</tbody>
</table>

*All product specifications are subject to change without notice*
19" Fanless 7th Generation Core i7 Professional Medical All in One PC

**Dimension / Unit: mm**

![Diagram of the medical all-in-one PC]

**Ordering Information**

- ZEUS-198ST-A25-1010
  i7-7600U.19" LCD.12~24V DC.Capacitive Touch
- ZEUS-198ST-A26-1010
  i5-7300U.19" LCD.12~24V DC.Capacitive Touch

**Optional Accessories**

- 1255301202
  Medical Power Adapter, 120W, 24V
- OPM-C15W-A6
  WLAN Kit, IEEE 802.11ac + Bluetooth 5.1
- OPM-T003-A5
  Slim Slot-in DVD-RW Drive
- OPM-T006-A1
  Smart Card Reader Kit
- OPM-P09C-A1
  25Wh Backup Battery
- OPM-C02C-A4
  Two Isolated RS-232 PCIe Card
- OPM-C02C-A3
  One Isolated USB 2.0 + Two Isolated R-232 PCIe Card
- OPM-V03B-A1
  One Display Port + Two RS-232 Kit
- OPM-V03B-A2
  One Display Port Kit
- OPM-T017-A3
  Hot Swap Rack w/Lock Kit for 2.5” HDD/SSD
- OPM-T012-A2
  Two RS-232 Kit
- OPM-V04B-A1
  DICOM Kit
- OPM-R02X-A1
  PCI Express [X1] Riser Kit
- OPM-U01T-A1
  Line-out/Line-in/Mic Kit
- OPM-S07R-A7
  RFID Reader- Kit
- OPM-U02T-A2
  One RS-232 + Line-out/Line-in/Mic Kit
In a digital operating room, important information and images such as patient vital signs, surgical images, and x-ray images need to be displayed all at once. With the latest technology, ACCEL series offers large screen ultra high definition 4K resolution display, AV over IP video solution, medical recorder, Intel Xeon / Core i7 quad core processor, AMD Ryzen Embedded V1000 Processor capacitive multi-touch screen and multiple video inputs to improve display quality and work efficiency.

**32/27-inch 4K UHD High Resolution & High Brightness 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
- IP54 Certified, Antimicrobial Surface Coating and Fanless
32/27-INCH 4K UHD HIGH RESOLUTION & HIGH BRIGHTNESS DISPLAY
ACCEL series offers 32/27-inch 3240x2160 resolution high brightness display for high resolution medical imaging.

INTEL® QUAD CORE XEON PLATFORM
For mission-critical medical application, Intel Quad Core Xeon Processor provides cutting edge computing power and ECC (Error-correcting code) memory helps preserve the integrity of your data, prevent data corruption, and prevent system crashed and failures.

TRIPLE PCI EXPRESS SLOT FOR HIGH END GRAPHICS, FIBER LAN & UHD VIDEO CAPTURE
ACCEL surgical station provide one PCI Express[x16] slot, one PCI Express[x4] slot and one PCI Express[x1] slot for installing high end graphics card, NVIDIA Tesla GPU accelerator, fiber 10GbE LAN card and 4K UHD video capture card.

ENHANCE FUNCTIONAL FOR MEDICAL IMAGING
ACCEL surgical monitor provides the embedded solutions for Medical Imaging, the multipicture functionality and backlight sensor could automatic to adjust the image to ensure a user has the most clearly diagnostic.

IP54 CERTIFIED, ANTIMICROBIAL SURFACE COATING AND FANLESS
ACCEL surgical monitor has IP54 certified gives the complete protection against contact from dust and powerful jets of water. and the Antimicrobial Surface Coating which could provide the best clean and healthy environment.
FEATURES FOR VM100/200/VS100

IP NETWORK WITH ONE CABLE SOLUTION
Onyx AV over IP video solution allows user to use one copper or one fiber to transmit video and audio signal, therefore, user use less cable for the installation of operating room.

ZERO LATENCY
Near zero Sub-millisecond latency provides better accuracy and increase safety during the surgery.

MEDICAL CERTIFICATION AND UNCOMPRESSED TRANSMISSION
Onyx Medical AV over IP video solution certifies with IEC60601 and FCC Part 18.

UNCOMPRESSED TRANSMISSION
Onyx AV over IP video solution supports 4K video uncompressed transmission (4:4:4).

OPEN API AND SDK FOR EASY INTEGRATION WITH EXISTING INFRASTRUCTURE
Onyx can provide API or SDK for the system integrator to do the integration with existing infrastructure and also can provide standard UI for the system integrator to be familiar with our solution easily.

ACCEL DIGITAL OR SOFTWARE SOLUTION FOR SWITCHING, ROUTING, RECORDING AND STREAMING
Onyx Software solution provides the function of video switching, routing, recording and streaming.

RECORDING AND 4K VIDEO STREAMING
Onyx can provide API or SDK for the system integrator to do the integration with existing infrastructure and also can provide standard UI for the system integrator to be familiar with our solution easily.
FEATURES FOR ACCEL-VM500 MEDICAL RECORDER

MULTIPLE VIDEO INPUT INTERFACE FOR FULL HD OR 4K VIDEO RECORDING
Onyx Medical recorder support Full HD recording with different legacy video input interface including YPbPR, CVBS, DVI or S-Video and 4K Video recording with HDMI input

MEDICAL CERTIFICATION
Onyx recording system certifies with UL60601-1, IEC60601-1 and FCC Part 18

SDK PROVIDE
Onyx can provide SDK for the system integrator to do the integration with existing infrastructure

MULTIPLE STORAGE SUPPORT
Support 2 x 2.5" HDD or SSD and 1 x M.2 NVMe SSD.

ONYX VERSION RECORDING SOFTWARE (ACCEL-RM)
Onyx also can provide Onyx version recording software including the features below
- Patient data entry and archiving
- Video playback, copy and preview
- Video timeline tag and editing
- Snapshot of the video as a picture to save
- When two or more Capture Cards are detected, it will automatically switch to Dual Mode

Onyx also can provide Onyx version recording software including the features below
- Patient data entry and archiving
- Video playback, copy and preview
- Video timeline tag and editing
- Snapshot of the video as a picture to save
- When two or more Capture Cards are detected, it will automatically switch to Dual Mode
# Medical PC & Monitor for Digital OR

## ACCEL-A3201

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

### Features
- Intel® 6th Generation Xeon E3-1505M v5 2.8GHz Quad Core / Core i7-6820EQ 2.8GHz Quad Core
- Supports ECC / Non-ECC DDR4 SODIMM up to 32GB
- 32” UHD 3840x2160 350-nit High Contrast LCD
- Capacitive Multi-Touch Screen
- 5 Programmable Smart Function Keys with Dual Colors LED Status Indication
- LAN/USB(optional)/COM(optional) Medical Isolation
- Dual Slots PCI Express[x16] x1 for High End Graphics Card /GPU Accelerator Card up to 300W
- PCI Express[x4] x1, PCI Express[x1]x1
- Trusted Platform Module 2.0
- Remote Management: Intel Active Management Technology
- 100V to 240V AC Input

### Specifications

#### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 6th Generation Xeon E3-1505M v5 2.8GHz Quad Core / Core i7-6820EQ 2.8GHz Quad Core</td>
</tr>
<tr>
<td>Chipset</td>
<td>CM236 (for Xeon) / QM170(for Core i7)</td>
</tr>
<tr>
<td>System Memory</td>
<td>ECC (for Xeon) / Non-ECC (for Core i7) DDR4 SODIMM up to 32GB</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCI Express[x16] x1, PCI Express[x4] x1, PCI Express[x1] x1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA Hard Disk Drive/Solid State Disk Drive x2</td>
</tr>
<tr>
<td>Security</td>
<td>Trusted Platform Module 2.0</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11ac, Bluetooth 5.1</td>
</tr>
<tr>
<td>Speaker</td>
<td>5W x 2</td>
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<tr>
<td>Function Key</td>
<td>Power On/Off, LCD,Brightness Up/Down, Touch Screen On/Off, Video Input Select</td>
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<tr>
<td>Power Requirement</td>
<td>150–240V AC</td>
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<td>OS Support</td>
<td>Windows® 7, Windows® 10, Linux®</td>
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#### Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Size</td>
<td>32”LCD</td>
</tr>
<tr>
<td>Resolution</td>
<td>3840 x 2160</td>
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<tr>
<td>Luminance</td>
<td>350 nits</td>
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<td>View Angle</td>
<td>178˚ (H)/178˚ (V)</td>
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<td>Contrast Ratio</td>
<td>1000:1</td>
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<tr>
<td>Back Light Life Time</td>
<td>30,000 Hours</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Capacitive Multi-Touch</td>
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#### I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td>USB</td>
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<tr>
<td>Serial Port</td>
<td>Isolated RS-232 x2 (optional)</td>
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<tr>
<td>Ethernet</td>
<td>Isolated Gigabit LAN x2</td>
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<tr>
<td>Audio</td>
<td>Mic (optional), Line out (optional)</td>
</tr>
<tr>
<td>Video Out</td>
<td>Display Port 1.4 x1</td>
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<tr>
<td>Video In</td>
<td>HDMI x1</td>
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#### Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Power Consumption</td>
<td>Full loading: 90 Watts</td>
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<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C (32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 100mm</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP54 in the front, IPX1 in the back</td>
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<tr>
<td>Dimension</td>
<td>778 x 478 x 102mm</td>
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<td>Package Size</td>
<td>910 x 618 x 220 mm</td>
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<td>Gross Weight</td>
<td>21.5 kg (47.4 lbs)</td>
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<td>Net Weight</td>
<td>18.5 kg (40.8 lbs)</td>
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<td>UL: ANSI/AAMI ES60601-1:2012 (V3.1)</td>
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<td></td>
<td>cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)</td>
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</tbody>
</table>

※ All product specifications are subject to change without notice
32” 4K UHD 6th Generation Xeon / Core i7 Medial All in One PC for AI Inference

**ACCEL-A3201**

**Dimension / Unit: mm**

```

```

**Ordering Information**

- ACCEL-A3201-P1-A1-0010
  OR Station. Xeon E3-1505M v5.32” UHD 350-nit. System Fan.
  AC 100~240V. Capacitive Touch
- ACCEL-A3201-P2-A1-0010
  OR Station. i7-6820EQ.32” UHD 350-nit. System Fan.
  AC 100~240V. Capacitive Touch

**Optional Accessories**

- OPM-C15W-A6
  WLAN Kit, 802.11a/b/g/n/ac + BT 5.1
- OPM-C02C-A3
  One Isolated USB 2.0 + Two Isolated RS-232 PCIe Card
- OPM-C02C-A4
  Two Isolated RS-232 PCIe Card
- 9789320100
  IR Remote Control for Display Setting
- OPM-H08S-A2
  Desktop Stand, White Color, VESA 75/100, 385mm Height.
Medical PC & Monitor for Digital OR
ACCEL-A2701
27” 4K UHD 6th Generation Xeon / Core i7 Medial All in One PC for AI Inference

Features

- Intel® 6th Generation Xeon E3-1505M v5 2.8GHz Quad Core / Core i7-6820EQ 2.8GHz Quad Core
- Supports ECC / Non-ECC DDR4 SODIMM up to 32GB
- 27” UHD 3840x2160 250-nit High Contrast LCD
- Capacitive Multi-Touch Screen
- 5 Programmable Smart Function Keys with Dual Colors LED Status Indication
- LAN/USB(optional)/COM(optional) Medical Isolation
- Dual Slots PCI Express[x16] x1 for High End Graphics Card / GPU Accelerator Card up to 300W
- PCI Express[x4] x1, PCI Express[x1]x1
- Trusted Platform Module 2.0
- Remote Management: Intel Active Management Technology
- 100V to 240V AC Input

Specifications

**MAIN SPECIFICATIONS**

- **Processor**: Intel® 6th Generation Xeon E3-1505M v5 2.8GHz Quad Core / Core i7-6820EQ 2.8GHz Quad Core
- **Chipset**: CM236 (for Xeon) / QM170(for Core i7)
- **System Memory**: ECC (for Xeon) / Non-ECC (for Core i7) DDR4 SODIMM up to 32GB
- **Expansion**: 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 x2
- **Security**: Trusted Platform Module 2.0
- **Wireless Communication**: 802.11ac, Bluetooth 5.1
- **Speaker**: 5W x 2
- **Function Key**: Power On/Off, LCD,Brightness Up/Down, Touch Screen On/Off , Video Input Select
- **Power Requirement**: 100~240V AC
- **OS Support**: Windows® 7, Windows® 10, Linux®

**DISPLAY**

- **Size**: 27” LCD
- **Resolution**: 3840 x 2160
- **Luminance**: 250 nits
- **View Angle**: 178˚(H)/178˚(V)
- **Contrast Ratio**: 1000:1
- **Back Light Life Time**: 30,000 Hours
- **Touch Screen**: Capacitive Multi-Touch

**I/O**

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

**MECHANICAL AND ENVIRONMENTAL**

- **Power Consumption**: Full loading : 90 Watts
- **Operating Temperature**: 0°C ~ 35°C(32°F ~ 95°F)
- **Storage Temperature**: -20°C ~ 60°C(-4°F ~ 140°F)
- **Mounting**: VESA 100mm
- **Degree of Protection**: IP54 in the front, IPX1 in the back
- **Dimension**: 676 x 429 x 102 mm
- **Package Size**: 820 x 575 x 230 mm
- **Gross Weight**: 16 kg (35.3 lb)
- **Net Weight**: 13.5 kg (29.76 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)

※ All product specifications are subject to change without notice.
27" 4K UHD 6th Generation Xeon / Core i7 Medial All in One PC  for AI Inference

**Dimension / Unit: mm**

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<thead>
<tr>
<th>Dimension</th>
<th>Unit: mm</th>
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<td></td>
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```

**ACCEL-A2701**

**Ordering Information**

- **ACCEL-A2701-P1-A1-0010**
  - OR Station. Xeon E3-1505M v5.27" UHD.
  - AC 100~240V.Capacitive Touch
- **ACCEL-A2701-P2-A1-0010**
  - OR Station. i7-6820EQ.27" UHD.
  - AC 100~240V.Capacitive Touch

**Optional Accessories**

- **OPM-C15W-A6**
  - WLAN Kit, 802.11a/b/g/n/ac + BT 5.1
- **OPM-T004-A5**
  - 5M Pixels Camera with Mic Kit
- **OPM-H08S-A1**
  - Desktop Stand, White Color, VESA 75/100, 390mm Height Max.
- **OPM-C02C-A3**
  - One Isolated USB 2.0 + Two Isolated RS-232 PCIe Card
- **OPM-C02C-A4**
  - Two Isolated RS-232 PCIe Card
# ACCEL-A2401

**24” FHD 9th Generation Xeon / Core i7 Medical All in One PC for AI Inference**

## Features
- Intel® 9th Generation Xeon E-2276ML 2.0GHz Six Core / Core i7-9850HL 1.9GHz Six Core
- Supports ECC / Non-ECC DDR4 SODIMM up to 64GB
- 24” FHD 1920x1080 400-nit High Contrast LCD
- Capacitive Multi-Touch Screen
- 4 Programmable Smart Function Keys with Dual Colors LED Status Indication
- LAN/USB(optional)/COM(optional) Medical Isolation
- Dual Slots PCI Express[x16] x1 for High End Graphics Card /GPU Accelerator Card up to 250W
- PCI Express[x4] x1, PCI Express[x1]x1
- Trusted Platform Module 2.0
- Remote Management: Intel Active Management Technology
- 100V to 240V AC Input

## Specifications

### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 9th Generation Xeon E-2276ML 2.0GHz Six Core / Core i7-9850HL 1.9GHz Six Core</td>
</tr>
<tr>
<td>Chipset</td>
<td>CM246 (for Xeon) / QM370 (for Core i7)</td>
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<tr>
<td>System Memory</td>
<td>ECC (for Xeon) / Non-ECC (for Core i7) DDR4 SODIMM up to 64GB</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCI Express[x16] x1, PCI Express[x4] x1, PCI Express[x1]x1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA Hard Disk Drive/Solid State Disk Drive x2</td>
</tr>
<tr>
<td>Security</td>
<td>Trusted Platform Module 2.0</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11ac, Bluetooth 5.1</td>
</tr>
<tr>
<td>Speaker</td>
<td>5W x 2</td>
</tr>
<tr>
<td>Function Key</td>
<td>Power On/Off, LCD,Brightness Up/Down, Touch Screen On/Off</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>100~240V AC</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 10, Linux®</td>
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### Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Size</td>
<td>24” LCD</td>
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<tr>
<td>Resolution</td>
<td>1920 x 1080</td>
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<td>Luminance</td>
<td>400 nits</td>
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<td>View Angle</td>
<td>178° (H) / 178° (V)</td>
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<tr>
<td>Contrast Ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>Back Light Life Time</td>
<td>30,000 Hours</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Capacitive Multi-Touch</td>
</tr>
</tbody>
</table>

### I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB</td>
<td>USB 3.0 x4</td>
</tr>
<tr>
<td>Serial Port</td>
<td>Isolated RS-232 x2 (optional)</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Isolated Gigabit LAN x2</td>
</tr>
<tr>
<td>Audio</td>
<td>Mic (optional), Line out (optional)</td>
</tr>
<tr>
<td>Video Out</td>
<td>Display Port 1.4 x1</td>
</tr>
</tbody>
</table>

### Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>Full loading: 75 Watts</td>
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<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C (32°F ~ 95°F)</td>
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<tr>
<td>Storage Temperature</td>
<td>-20°C ~ -60°C (4°F ~ -140°F)</td>
</tr>
<tr>
<td>Mounting</td>
<td>vESPA 100mm</td>
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<tr>
<td>Degree of Protection</td>
<td>IP54 in the front, IPX1 in the back</td>
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<tr>
<td>Dimension</td>
<td>595 x 387 x 95 mm</td>
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<td>Package Size</td>
<td>764 x 240 x 534 mm</td>
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<td>Gross Weight</td>
<td>13 kg (28.7 lb)</td>
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<tr>
<td>Net Weight</td>
<td>11 Kg (24.3 lb)</td>
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※ All product specifications are subject to change without notice
24” FHD 9th Generation Xeon / Core i7 Medial All in One PC for AI Inference

**Ordering Information**

- ACCEL-A2401-P1-A1-0010
  OR Station. Xeon E3-2276ML. 24” FHD Capacitive Touch
- ACCEL-A2401-P2-A1-0010
  OR Station. i7-9850HL. 24” FHD Capacitive Touch

**Optional Accessories**

- OPM-C15W-A6
  WLAN Kit, 802.11ac + BT 5.1
- OPM-C02C-A3
  One Isolated USB 2.0 + Two Isolated RS-232 PCIe Card
- OPM-C02C-A4
  Two Isolated RS-232 PCIe Card
- OPM-H08S-A1
  Desktop Stand, White Color, VESA 75/100, 390mm Height Max.
# ACCEL-VM500R

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

## Features
- Intel® 9th generation Core i/Xeon Processor with C246A chipset
- Supports ECC DDR4 DIMM up to 64GB memory
- Excellent Thermal design with low fan noise OR room environment
- Support TPM 2.0 for security management
- Support Three 4K Displays: HDMI x 2, DP x 1
- System is medical Certified with graphic card and capture card
- Support the integration of Nvidia RTX A4000, A5000 and A6000 GPU Card
- Support CD DVD(optional)
- Support Built in speaker (optional)

## Application
- Equipment control
- Video recording in OR room
- Medical AI Application

## Specifications

### MAIN SPECIFICATIONS

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

### I/O

<table>
<thead>
<tr>
<th>Port</th>
<th>Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear USB 3.1 Gen 1 x 4</td>
<td></td>
</tr>
<tr>
<td>Front USB 2.0 or USB 3.0 (Optional)</td>
<td></td>
</tr>
<tr>
<td>Rear USB 3.1 Gen 2 x 6 (Optional)</td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit LAN x 2</td>
</tr>
<tr>
<td>Serial Ports</td>
<td>RS-232 x 2</td>
</tr>
<tr>
<td>Extension area</td>
<td>M.2 E Key 2230 x 1 for Wireless module PCIe 3.0 (x16) x 1, PCIe 3.0 (x4) x 2, PCIe 3.0 (x1) x 1</td>
</tr>
<tr>
<td>Capture card (optional)</td>
<td>4Kp60: HDMI 2.0 in FHD: HDMI x 1, DVI-I x 1, YPbPr x 1, SDI x 1, CVBS x 1, S-Video x 1</td>
</tr>
</tbody>
</table>

### MECHANICAL AND ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>100W to 240V AC Input, 500W</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C (32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Dimension</td>
<td>330 x 357.4 x 168 mm</td>
</tr>
<tr>
<td>Package Size</td>
<td>500 x 490 x 300 mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>8.6 kg</td>
</tr>
<tr>
<td>Net Weight</td>
<td>8 kg</td>
</tr>
</tbody>
</table>

※ All product specifications are subject to change without notice
Medical Video Management System with 9th Generation Intel Xeon / Core i7 CPU

**Dimension / Unit: mm**

![ACCEL-VM500](image)

**Ordering Information**

- **ACCEL-VM500-N1-A1-0010**
  Medical Box PC.I7-9700E.FAN.4PCIe slot.AC 100~240V.White
- **ACCEL-VM500-N2-A1-0010**
  Medical Box PC.E-2278GE.FAN.4PCIe slot.AC 100~240V.White
- **ACCEL-VM500R-N1-A1-0010**
  4K UHD Medical Recorder.I7-9700E.Fan.16GB RAM.1TB HDD.Win 10 IoT.4Kp60+FHD. ACCE-RM Pre-installed

**Optional Accessories**

- **OPM-C12W-A13**
  WLAN Kit.802.11a/b/g/n/ac.w/BT 4.1.dual ext. antenna. Qualcomm Atheros NFA364A for ACCEL-VM500
- **OPM-C15W-A13**
  WLAN Kit.802.11a/b/g/n/ac BT 5.dual ext. antenna. Intel AC 9260NGWIE.NV.999LV6 for ACCEL-VM500
- **9686400008**
  Graphics Card.NVIDIA Quadro RTX4000 8GB.GDDR6 PCI-E. NVIDIA.RTX4000
- **9686666685**
  4k HDMI capture card.2 Port.HDMI2.0
- **9686015601**
  Full HD PCIe Video.Capture Card. 1xHDMI, 1xDVI-I, 1xYPbPr, 1xSDI, 1xCVBS, 1x5 Video
- **A50-SEC-A1**
  Second 2.5" HDD/SSD kit. for ACCEL-VM500
- **A50-SPK-A2**
  5W Internal Speaker kit. for ACCEL-VM500
- **9686500000**
  (AOH)(TF)Graphics Card.NVIDIA Quadro RTX5000.16GB GDDR6. PCI-E.NVIDIA.RTX5000
- **9686A40000**
  (AOH)(TF)Graphics Card.NVIDIA Quadro RTXA4000.16GB.GDDR6. PCI-E 4.0*16.DP 1.4.NVIDIA.RTX A4000
- **9686A50000**
  (AOH)(TF)Graphics Card.NVIDIA Quadro RTXA5000.24GB.GDD6. PCI-E 4.0*16.DP 1.4.NVIDIA.RTX A5000
- **9686A60000**
  (AOH)(TF)Graphics Card.NVIDIA Quadro RTXA6000.48GB.GDDR6. PCI-E 4.0*16.DP 1.4.NVIDIA.RTX A6000
Features

- Can be configured to function as either a Transmitter or a Receiver
- IP switchable with minimum latency requires optional control center or control software
- Extension up to 30km (maximum distance depends on the SFP+ module and type of fiber used)
- Supports the use of an external control center or control software to provide expanded functionality

Specifications

**Interfaces**

| Input Port | 1 x HDMI (Type-A) |
| Output Port | 1 x HDMI (Type-A) |
| Bi-directional Port | 1 x 10Gbe LAN (SFP+) |
| Pass-through Port | 1 x 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) |
| Service Port | 1 x USB (Mini-B) |

**Video**

- HDMI Compliance: HDMI 2.0 (DVI 1.0)
- HDCP Compliance: 2.2
- Input Signal Types: HDMI 2.0 / 4K@60, HDR10 / DisplayPort 1.4 HBR2

**Resolutions**

- Maximum Input: HDMI - 4096×2160p@60, 2560×1600p@60RB
  DisplayPort - 4096×2160p@60, 2560×1600p@60RB
  Streaming - 4096×2160p@60, 2560×1600p@60RB
- Maximum Output: HDMI - 4096×2160p@60, 2560×1600p@60RB
  Streaming - 4096×2160p@60, 2560×1600p@60RB

**Audio**

- Digital Formats: HDMI - 8CH LPCM, Bitstream, HD Bitstream
  DisplayPort - 8CH LPCM, Bitstream, HD Bitstream
- Analog Formats: Unbalanced 2 Channel
- 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)

**Power**

- Power Supply: 12V/3A (Locking)
- Power Consumption: HDMI 2.3 / 4K@60, HDR10 / DisplayPort 1.4 HBR2

**Enclosure**

- Chassis Material: Metal (Steel)
- Chassis Color: White
  FCC: Part 18 Class A

**Order Information**

- ACCEL-VM100-N1-A1-0001
  4K UHD+ HDMI/DP/USB over Fiber Transmitter/Receiver
  (10Gbit/s SFP+)

※ All product specifications are subject to change without notice
Features

- Enables the management and configuration of multiple compatible video over IP (VoIP) extenders through a single WebGUI.
- WebGUI clearly displays the status of all connected Transmitters and Receivers, including IP address, channel selection, etc.
- Dual LAN ports enable control over VoIP installations that reside on a logically or physically separate network from the standard local network.
- Support Optional Trigger Control Keypad for easy, single-button, preset activation.

Specifications

INTERFACES

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

VIDEO

| Maximum Output | HDMI |

RESOLUTIONS

| Maximum Output | 1920 x 1080p@60 |

POWER

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>5V2.8A DC (Locking)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>2.99W</td>
</tr>
</tbody>
</table>

ENCLOSURE

<table>
<thead>
<tr>
<th>Chassis Material</th>
<th>Metal (Steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis Color</td>
<td>White</td>
</tr>
<tr>
<td>Dimensions (W×H×D)</td>
<td>231.5 × 25 ×108 mm (Case Only)</td>
</tr>
<tr>
<td></td>
<td>231.5 × 25 ×117 mm (All Inclusive)</td>
</tr>
<tr>
<td>Weight</td>
<td>250g</td>
</tr>
<tr>
<td>Packing Size</td>
<td>280 x 180 x 71 mm</td>
</tr>
</tbody>
</table>

Order information

- ACCEL-VM200-N1-A1-0001
  AV over IP Master Controller
Features

- Audio embedding and mixing support with the analog stereo audio input
- Integrated support for live streaming to Facebook, Youtube or Twitch Channel
- On screen countdown timer and test overlay are supported
- Generate 4 simultaneous streams from the same video source for easy system integration at multiple bandwidth targets
- Control via front panel buttons WebGUI, Telnet, RS232 and IR

Specifications

**INTERFACES**

<table>
<thead>
<tr>
<th>Input Port</th>
<th>1 x HDMI (Type-A)</th>
<th>1 x VGA (HD-15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Port</td>
<td>1 x HDMI (Type-A)</td>
<td></td>
</tr>
<tr>
<td>Pass-through Port</td>
<td>1 x LAN ( RJ-45)</td>
<td>1 x RS-232 (DE-9)</td>
</tr>
<tr>
<td>Service Port</td>
<td>1 x USB (Type-A)</td>
<td></td>
</tr>
</tbody>
</table>

**VIDEO**

- HDMI Compliance: 2.0
- HDCP Compliance: 2.2
- Input Signal Types: 4K@60 8bit YUV 4:4:4
- Output Signal Type: 4K@60 8bit YUV 4:4:4

**RESOLUTIONS**

- Maximum Input: HDMI - 4096×2160p@60, 2560×1600p@60RB
  VGA - 1920×1200p@60RB
- Maximum Output: HDMI - 4096×2160p@60, 2560×1600p@60RB
  H.264 Stream - 1080p@60

**AUDIO**

- HDMI: Unbalanced Stereo, 2CH LPCM

**POWER**

- Power Supply: 5V2.6A
- Power Consumption: 9.57W (Full load)

**ENCLOSURE**

- Chassis Material: Metal (Steel)
- Chassis Color: White
- Dimensions (W×H×D): 231.5 × 25 × 108 mm
- Weight: 668g
- Packing Size: 280 × 180 × 71 mm
  FCC: Part 18 Class A

Order information

- ACCEL-VS100-N1-A1-0001
  HDMI/VGA Live Video Streamer with Recording
SLIM MEDICAL ALL IN ONE PC

The Slim Medical Panel PC is designed to meet the requirements and still be cost effective. It is running an Intel Atom processor, and it included all necessary input slots within its ultra slim chassis. The flexibility of slim fanless all in one medical panel PC is prefect for 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**

Slim Medical Panel PC offers four LCD sizes to fulfill the requirements of various hospital applications. 10.1” (Resolution:1280x800), 11.6”(Resolution:1366x768), 15.6”(Resolution:1920x1080), 17”(Resolution:1280x1024)

**Quiet, clean & easy to maintain**

Slim Medical Panel PCs utilize a large fanless heatsink on the back cover to efficiently dissipate heat generated from the processor and chipset. The fanless cooling design keeps the environment quiet, clean and lowers maintenance efforts.

**Green & compact size for operation**

Less than 50W power consumption keeps Slim Medical Panel PC operating and extends the battery life of mobile medical carts. With narrow edge and monitor like chassis, it is easy and space friendly to users.

**Dual antennas with best WLAN performance**

With two antennas built into the Slim Medical Panel PCs, massive medical records and PACS images can be transferred through IEEE 802.11ac/a/b/g/n wireless LAN up to 300Mbps/sec.

---

![Diagram of healthcare environments with Onyx logo in the center.](image-url)
## Features
- Intel Celeron N6210 / Atom x6211E Dual Core Processor
- 17” High Brightness 350 nits SXGA LCD
- Supports DDR4 SODIMM up to 16GB (optional In-Band ECC support)
- 5-wire Resistive Touch Screen
- Trusted Platform Module / Smart Card Reader(optional) / RFID Reader(optional)
- 802.11ac Wireless LAN(optional)
- +12V DC input

## Specifications

### MAIN SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Celeron N6210 2.6GHz / Atom x6211E 3.0GHz Dual Core Processor</td>
</tr>
<tr>
<td>System Memory</td>
<td>Supports DDR4 SODIMM up to 16GB (In-Band ECC with Atom x6211E)</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 10, Windows® 11, Linux®</td>
</tr>
<tr>
<td>Expansion Interface</td>
<td>M.2 2230(E-key) x 1, Proprietary PCIe[x1] x 1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>M.2 2242 SATA SSD x1</td>
</tr>
<tr>
<td>Security</td>
<td>Trusted Platform Module, Smart Card Reader(optional), RFID Reader(optional)</td>
</tr>
<tr>
<td>Function Key</td>
<td>Speaker Volume Up/Down, LCD Brightness Up/Down</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11ac, Bluetooth 5.1(optional)</td>
</tr>
<tr>
<td>Speaker</td>
<td>3W x 2</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12V</td>
</tr>
</tbody>
</table>

### DISPLAY

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>17” LCD</td>
</tr>
<tr>
<td>Resolution</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Luminance</td>
<td>350 nits</td>
</tr>
<tr>
<td>View Angle</td>
<td>170˚(H)/160˚(V)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>Back Light Life Time</td>
<td>&gt; 30,000 hours</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>5-wire Resistive</td>
</tr>
</tbody>
</table>

### I/O

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB</td>
<td>USB 3.1 Gen 1 x4</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS-232 x 1</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit LAN x2 (isolated x1 + non-isolated x1)</td>
</tr>
<tr>
<td>Video Out</td>
<td>HDMI 2.0b x 1</td>
</tr>
</tbody>
</table>

### MECHANICAL AND ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>TBD</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C(32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 75/100 mm</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP65 in the front, IPX1</td>
</tr>
<tr>
<td>Dimension</td>
<td>384 x 338 x 69 mm</td>
</tr>
<tr>
<td>Package Size</td>
<td>630 x 230 x 640 mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>9kg (19.84 lb)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>5.6kg (12.32lb)</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ATI:2013(V3.1)</td>
</tr>
</tbody>
</table>
<pre><code>                              | FCC: Part 18 Class B |
                              | UL: ANSI/AAMI ES60601-1:2012 (V3.1) |
                              | cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1) |
</code></pre>

※ All product specifications are subject to change without notice
17" Fanless Slim Medical All in One PC

Dimension / Unit: mm

Ordering Information

- SMA-1733-P1-A1-0010
  Slim Medial AIO, 17" LCD, Resistive Touch, Celeron N6210, DC 12V
- SMA-1733-P2-A1-0010
  Slim Medial AIO, 17" LCD, Resistive Touch, Atom x6211E, DC 12V

Optional Accessories

- 125530060C
  Medical Power Adapter, 60W, 12V
- OPM-T008-A1
  Smart Card Reader Kit
- OPM-T007-A5
  Slim Slot-in DVD-RW Drive
- OPM-C15W-A12
  WLAN Kit, IEEE 802.11ac+ Bluetooth 5.1
**Features**

- Intel® Celeron N6210 / Atom x6211E Dual Core Processor
- 15.6" High Brightness 300-nit Full HD LCD
- Supports DDR4 SODIMM up to 16GB (optional In-Band ECC support)
- Capacitive Multi-Touch Screen
- Proprietary PCI Express[x1] Interface
- Easy Cleaning Flat Screen
- 4 Programmable Smart Function Keys
- High Speed USB 3.1 Port
- 2.0M Pixels Camera with Mic (optional)
- HDMI 2.0b Port for 2nd Display
- RFID Reader (optional)
- +12V DC input / Power over Ethernet (optional)

**Specifications**

### MAIN SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Celeron N6210 2.6GHz / Atom x6211E 3.0GHz Dual Core Processor</td>
</tr>
<tr>
<td>System Memory</td>
<td>Supports DDR4 3200 SODIMM up to 16GB (In-Band ECC with Atom x6211E)</td>
</tr>
<tr>
<td>Expansion Interface</td>
<td>M.2 2230(S-E-key) x 1, Proprietary PCIe[x1] x 1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>M.2 2242 SATA SSD x1</td>
</tr>
<tr>
<td>Security</td>
<td>RFID Reader (optional)</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11ac (optional) + Bluetooth 5.1/5.3 (optional)</td>
</tr>
<tr>
<td>Speaker</td>
<td>3W x 2</td>
</tr>
<tr>
<td>Function Key</td>
<td>LCD Brightness Up/Down, Touch Screen On/Off</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12V / Power over Ethernet (optional)</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows 10, Windows 11, Linux</td>
</tr>
</tbody>
</table>

### DISPLAY

- Size / Type: 15.6" LCD
- Max. Resolution: 1920 x 1080
- Luminance(cd/m²(TYP): 300 nits
- Max. Colors: 16.2 M
- Viewing Angle: 178˚(H)/178˚(V)
- Contrast Ratio: 1000:1
- Back Light Life Time: > 30,000 hours
- Touch Screen: Capacitive Multi-Touch

### I/O

- USB: USB 3.1 Gen 1 x4
- Serial Port: 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
- Operating Temperature: 0°C ~ 40°C(32°F ~ 104°F)
- Storage Temperature: -20°C ~ 40°C(-4°F ~ 140°F)
- Mounting: VESA 75/100 mm
- Degree of Protection: IP65 in the front, IPX1
- Dimension: 398 x 265 x 47mm
- Package Size: 721 x 224 x 464mm
- Gross Weight: 6.5 kg (14.33lb)
- Net Weight: 2.8 kg (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)

※ All product specifications are subject to change without notice
15.6" Fanless Slim Medical All in One PC

**Ordering Information**

- **SMA-1533-P1-A1-0010**
  Slim Medial AIO, 15.6" FHD LCD, Capacitive Touch, Celeron N6210, DC 12V
- **SMA-1533-P2-A1-0010**
  Slim Medial AIO, 15.6" FHD LCD, Capacitive Touch, Atom x6211E, DC 12V

**Optional Accessories**

- **125530060C**
  Medical Power Adapter, 60W, 12V
- **OPM-T011-A1**
  2M Pixels Camera with Mic Kit
- **OPM-C15W-AS**
  WLAN Kit, IEEE 802.11ac + Bluetooth 5.1
### Features
- Intel® Celeron N6210 / Atom x6211E Dual Core Processor
- 11.6" 250-nit WXGA /300-nit FHD LCD
- Supports DDR4 SODIMM up to 16GB (optional In-Band ECC support)
- Capacitive Multi-Touch Screen
- Proprietary PCI Express[x1] Interface
- Easy Cleaning Flat Screen
- 4 Programmable Smart Function Keys
- High Speed USB 3.1 Port
- 2.0M Pixels Camera with Mic (optional)
- HDMI 2.0b Port for 2nd Display
- RFID Reader (optional)
- +12V DC input / Power over Ethernet(optional)

### Specifications

#### MAIN SPECIFICATIONS
- **Processor**
  - Intel® Celeron N6210 2.6GHz / Atom x6211E 3.0GHz 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 x 1
- **Security**
  - RFID Reader (optional)
- **Wireless Communication**
  - 802.11ac/ax(optional) + Bluetooth 5.1/5.3(optional)
- **Speaker**
  - 2W x 2
- **Function Key**
  - LCD Brightness Up/Down, Touch Screen On/Off
- **Power Requirement**
  - DC 12V / Power over Ethernet(optional)
- **OS Support**
  - Windows 10, Windows 11, Linux

#### DISPLAY
- **Size / Type** 11.6" LCD
- **Max. Resolution** 1366 x 768 / 1920 x 1080
- **Luminance(cm/dm2)(TYP)** 250 nits / 400 nits
- **Max. Colors** 16.7 M
- **Viewing Angle** 90(H)/60(V) / 178(H)/178(V)
- **Contrast Ratio** 500:1 / 800:1
- **Back Light Life Time** >15,000 hours
- **Touch Screen** Capacitive Multi-Touch

#### I/O
- **USB**
  - USB 3.1 Gen 1 x4
- **Serial Port**
  - 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
- **Operating Temperature** 0°C ~ 40°C(32°F ~ 104°F)
- **Storage Temperature** -20°C ~ -60°C(4°F ~ 140°F)
- **Mounting** VESA 75/100 mm
- **Degree of Protection** IP65 in the front, IPX1
- **Dimension**
  - 309 x 208 x 47 mm
- **Package Size**
  - 540 x 230 x 370 mm
- **Gross Weight**
  - 44kg (97.8lb)
- **Net Weight**
  - 1.5kg (3.3lb)

#### Certifications
- FCC: Part 18 Class B
- UL: ANSI/AAMI ES60601-1:2012 (V3.1)
- cUL: CAN/CSA-C22.2 No. 60601-1-2014 (V3.1)

※ All product specifications are subject to change without notice
11.6" Fanless Slim Medical All in One PC

**Ordering Information**

- SMA-1233-P1-A1-0010
  Slim Medial AIO, 11.6" WXGA LCD, Capacitive Touch, Celeron N6210, DC 12V
- SMA-1233-P1-A2-0010
  Slim Medial AIO, 11.6" FHD LCD, Capacitive Touch, Celeron N6210, DC 12V
- SMA-1233-P2-A1-0010
  Slim Medial AIO, 11.6" WXGA LCD, Capacitive Touch, Atom x6211E, DC 12V
- SMA-1233-P2-A2-0010
  Slim Medial AIO, 11.6" FHD LCD, Capacitive Touch, Atom x6211E, DC 12V

**Optional Accessories**

- 125530060C
  Medical Power Adapter, 60W, 12V
- OPM-T011-A1
  2M Pixels Camera with Mic Kit
- OPM-C15W-A4
  WLAN Kit, IEEE 802.11ac + Bluetooth 5.1
Features

- Intel® Celeron N6210 / Atom x6211E Dual Core Processor
- 10.1" 1280x800 LCD
- Supports DDR4 SODIMM up to 16GB (optional In-Band ECC support)
- Capacitive Multi-Touch Screen
- Proprietary PCI Express[x1] Interface
- Easy Cleaning Flat Screen
- 4 Programmable Smart Function Keys
- High Speed USB 3.1 Port
- 2.0M Pixels Camera with Mic (optional)
- HDMI 2.0b Port for 2nd Display
- RFID Reader (optional)
- +12V DC input

Specifications

**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
- **Security**: RFID Reader (optional)
- **Wireless Communication**: 802.11ac/ax (optional) + Bluetooth 5.1/5.3 (optional)
- **Speaker**: 2W x 2
- **Function Key**: LCD Brightness Up/Down, Touch Screen On/Off
- **Power Requirement**: DC 12V
- **OS Support**: Windows 10, Windows 11, Linux

**DISPLAY**

- **Size / Type**: 10.1" LCD
- **Max. Resolution**: 1280 x 800
- **Luminance (cd/m²) (TYP)**: 400 nits
- **Viewing Angle**: 178° (H)/178° (V)
- **Contrast Ratio**: 800:1
- **Back Light Life Time**: 30,000 hours
- **Touch Screen**: Capacitive Multi-Touch

**I/O**

- **USB**: USB 3.1 Gen 1 x4
- **Serial Port**: 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
- **Operating Temperature**: 0°C ~ 40°C (32°F ~ 104°F)
- **Storage Temperature**: -20°C ~ 60°C (-4°F ~ 140°F)
- **Mounting**: VESA 75/100 mm
- **Degree of Protection**: IP65 in the front, IPX1
- **Dimension**: 262 x 191 x 45 mm
- **Package Size**: 402 x 190 x 335 mm
- **Gross Weight**: 3.7kg (8.2lb)
- **Net Weight**: 1.2kg (2.6lb)

※ All product specifications are subject to change without notice
10.1" Fanless Slim Medical All in One PC

Ordering Information

- SMA-1033-P1-A1-0010
  Slim Medial AIO, 10.1" LCD, Capacitive Touch, Celeron N6210, DC 12V
- SMA-1033-P2-A1-0010
  Slim Medial AIO, 10.1" LCD, Capacitive Touch, Atom x6211E, DC 12V

Optional Accessories

- 125530060C
  Medical Power Adapter, 60W, 12V
- OPM-C15W-A4
  WLAN Kit, IEEE 802.11a/b/g/n + Bluetooth 4.0
- OPM-T010-A2
  Smart Card Reader Kit
- OPM-T011-A2
  2M Pixels Camera with Mic Kit
**Key Features**

- 19”/22”/24” LCD with capacitive multi-touch
- Trusted Platform Module, RFID Reader and Smart Card Reader for Security Enhancement
- One PCI Express Slot
- +12V DC / 100~240V AC input
- Fanless Design for Quiet and Easy Maintenance
- Reading Light
**INTEL® CORE PLATFORM FOR CRITICAL APPLICATIONS**

Medical AIO offer ultra high performance Intel® Core processor.

---

**SUPER 3.0 FOR USB, SATA AND PCI-E**

Still looking for a faster solution to upload or download medical records?!
Zeus comes with latest high speed I/O design (USB3.0, SATA3.0, PCI-E3.0).
Super 3.0 gives ten times data rate than before.

---

**TRIPLE ISOLATION PROTECTION TO PATIENT**

Medical isolation rating is 4kV rms (IEC 60601-1), which is crucial to protect
patients, operators and medical equipment from harmful surges or spikes
in the electrical signal. Medical AIO offers optional COM port, USB port isolation.
We set the highest standard for patient and medical uses.

---

**QUIET, CLEAN & EASY TO MAINTAIN**

Slim Medical Panel PCs utilize a large fanless heatsink on the back cover to
efficiently dissipate heat generated from the processor and chipset. The Fanless
cooling design keeps the environment quiet, clean and lowers maintenance
efforts.

---

**DUAL ANTENNAS WITH BEST WLAN PERFORMANCE**

With two antennas built into the Slim Medical Panel PCs, massive medical records
and PACS images can be transferred through IEEE 802.11ac/a/b/g/n wireless
LAN up to 1.73G bps/sec.
## Features

- Intel® 9th Generation Core™ i7/i5 Processor
- Supports Dual Channel DDR4 2666 SODIMM up to 64GB
- 24" Full HD High Contrast LCD
- Capacitive Multi-Touch Screen
- Two Gigabit Ethernet
- High Speed USB 3.2 Gen1 Ports
- RS-232 x 2
- 8MP Camera with Mic (optional)
- PCI-Express [x4]/[x1] (optional)
- 25Wh Backup Battery (optional)
- Imprivata RFID Reader (optional)
- Reading Light

## Specifications

### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 9th Generation Core i7-9700TE 8 Cores 3.8GHz&lt;br&gt;Intel® 9th Generation Core i5-9500TE 6 Cores 3.6GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>Supports Dual Channel DDR4 2666 SODIMM up to 64GB</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® H310</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 10, Windows® 11, Linux®</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>M.2 2242 SATA SSD x 1&lt;br&gt;2.5&quot; SATA Hard Disk Drive/SSD x 1 (optional)</td>
</tr>
<tr>
<td>Security</td>
<td>Trusted Platform Module 2.0, Imprivata RFID Reader (optional)</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 ac (optional), 802.11 ax (optional), Bluetooth 5 (optional)</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W x 2</td>
</tr>
<tr>
<td>Function Key</td>
<td>LCD Brightness Up/Down, Touch Screen On/Off, Reading Light On/Off</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>AC 100~240V / DC 12V / 24V</td>
</tr>
</tbody>
</table>

### Display

- Size: 24" LCD
- Resolution: 1920 x 1080
- Luminance: 250 nits
- View Angle: 178˚ (H)/178˚ (V)
- Contrast Ratio: 3000:1
- Back Light Life Time: 30,000 Hours
- Touch Screen: 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
- Ethernet: 1.5KV Isolated Gigabit LAN x 2
- Video Out: Display Port 1.2 x 1, HDMI 1.4b x 1 (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: 75x100 mm
- Degree of Protection: IP55 in the front; IP44 in the back
- Dimension: 586 x 381 x 67mm
- Package Size: 755 x 195 x 528mm
- Gross Weight: 14 kg (30.86 lb)
- Net Weight: 8.7 kg (19.2 lb)

### Certifications

- CE: EN 60601-1:2015(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)

※ All product specifications are subject to change without notice
24” Fanless 9th Generation Core i7 Powerful Medical All in One PC

**Dimension / Unit: mm**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Values</th>
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<tbody>
<tr>
<td>Width</td>
<td>585.59</td>
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<tr>
<td>Height</td>
<td>381.19</td>
</tr>
<tr>
<td>Depth</td>
<td>67.42</td>
</tr>
</tbody>
</table>

**Ordering Information**

- **MATE2-2410-P1-A1/B1-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i7-9700TE, AC 100~240V / DC 12V
- **MATE2-2410-P1-A2/B2-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i7-9700TE, Backup Battery, AC 100~240V / DC 12V
- **MATE2-2410-P2-A1/B1-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i5-9500TE, AC 100~240V / DC 12V
- **MATE2-2410-P2-A2/B2-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i5-9500TE, Backup Battery, AC 100~240V / DC 12V
- **MATE2-2410-P1-A3/B3-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i7-9700TE, RFID Reader, AC 100~240V / DC 12V
- **MATE2-2410-P2-A3/B3-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i5-9500TE, RFID Reader, AC 100~240V / DC 12V
- **MATE2-2410-P1-A4/B4-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i7-9700TE, RFID Reader, Backup Battery, AC 100~240V / DC 24V
- **MATE2-2410-P2-A4/B4-0010**
  - Medical Panel PC, 24” LCD, Capacitive Touch, i5-9500TE, RFID Reader, Backup Battery, AC 100~240V / DC 24V
- **OPM-R03X-A1**
  - PCI Express (x1) Riser Kit
- **OPM-R04X-A1**
  - PCI Express (x4) Riser Kit
- **OPM-C15W-A6**
  - WLAN Kit, IEEE 802.11ac + Bluetooth 5.1
- **OPM-C18W-A2**
  - WLAN Kit, IEEE 802.11ax + Bluetooth 5.2
- **OPM-V06C-A1**
  - 8M Pixels Camera with Mic
- **OPM-T038-A1**
  - 2.5” SSD/HDD Kit
- **OPM-C02C-A1**
  - Two Isolated RS-232 & One Isolated USB 2.0 Full Speed PCIe Card
- **OPM-C02C-A2**
  - Two Isolated RS-232 PCIe Card
- **OPM-C07U-A3/A4**
  - Four Isolated USB 2.0 Full Speed Kit
Powerful Medical All in One PC

MATE2-2210

22” Fanless 9th Generation Core i7 Powerful Medical All in One PC

Features

- Intel® 9th Generation Core™ i7/ i5 Processor
- Supports Dual Channel DDR4 2666 SODIMM up to 64GB
- 22” Full HD High Contrast LCD
- Capacitive Multi-Touch Screen
- Two Gigabit Ethernet
- High Speed USB 3.2 Gen1 Ports
- RS-232 x 2
- 8MP Camera with Mic (optional)
- PCI Express [x4] / [x1] x1 (optional)
- 25Wh Backup Battery (optional)
- Imprivata RFID Reader (optional)
- Reading Light

Specifications

**Main Specifications**

- **Processor**
  - 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 SODIMM up to 64GB
- **Expansion Interface**
  - PCI Express[x4]/[x1] x1 (optional)
- **OS Support**
  - Windows® 10, Windows® 11, Linux®
- **Storage Disk Drive**
  - M.2 2242 SATA SSD x 1
  - 2.5” SATA Hard Disk Drive/SSD x 1 (optional)
- **Security**
  - Trusted Platform Module 2.0
  - Imprivata RFID Reader (optional)
- **Wireless Communication**
  - 802.11 ac, 802.11 ax (optional)
  - Bluetooth 5 (optional)
- **Speaker**
  - 2W x 2
- **Function Key**
  - LCD Brightness Up/Down
  - Touch Screen On/Off, Reading Light On/Off
- **Power Requirement**
  - AC 100~240V / DC 12V/24V

**Display**

- **Size**
  - 22” LCD
- **Resolution**
  - 1920 x 1080
- **Luminance**
  - 250 nits
- **View Angle**
  - 178˚ (H) / 178˚ (V)
- **Contrast Ratio**
  - 1000:1
- **Back Light Life Time**
  - 50,000 Hours
- **Touch Screen**
  - 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 or x1 (When backup battery is installed)
- **Ethernet**
  - 1.5KV Isolated Gigabit LAN x 2
- **Video Out**
  - Display Port 1.2 x1, HDMI 1.4b x 1
  - (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**
  - 75x100 mm
- **Degree of Protection**
  - IP65 in the front; IPX4 in the back
- **Dimension**
  - 542 x 355 x 67mm
- **Packaging Size**
  - 711 x 303 x 503mm
- **Gross Weight**
  - 11 kg (24.25 lb)
- **Net Weight**
  - 7.5 kg (16.5 lb)
- **Certifications**
  - FCC Part 18 Class B
  - UL: ANSI/AAMI ES60601-1:2012 (V3.1)
  - cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

*All product specifications are subject to change without notice.*
22" Fanless 9th Generation Core i7 Powerful Medical All in One PC

**Dimension / Unit: mm**

---

**Ordering Information**

- **MATE2-2210-P1-A1/B1-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i7-9700TE, AC 100~240V / DC 12V

- **MATE2-2210-P2-A1/B1-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i5-9500TE, AC 100~240V / DC 12V

- **MATE2-2210-P1-A2/B2-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i7-9700TE, Backup Battery, AC 100~240V / DC 24V

- **MATE2-2210-P2-A2/B2-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i5-9500TE, Backup Battery, AC 100~240V / DC 24V

- **MATE2-2210-P1-A3/B3-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i7-9700TE, RFID Reader, AC 100~240V / DC 12V

- **MATE2-2210-P2-A3/B3-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i5-9500TE, RFID Reader, AC 100~240V / DC 12V

- **MATE2-2210-P1-A4/B4-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i7-9700TE, RFID Reader, Backup Battery, AC 100~240V / DC 24V

- **MATE2-2210-P2-A4/B4-0010**
  Medical Panel PC, 22" LCD, Capacitive Touch, i5-9500TE, RFID Reader, Backup Battery, AC 100~240V / DC 24V

**Optional Accessories**

- **OPM-R03X-A1**
  PCI Express[x1] Riser Kit

- **OPM-R04X-A1**
  PCI Express[x4] Riser Kit

- **OPM-C15W-A6**
  WLAN Kit, IEEE 802.11ac + Bluetooth 5.1

- **OPM-C18W-A2**
  WLAN Kit, IEEE 802.11ax + Bluetooth 5.2

- **OPM-V06C-A1**
  8M Pixels Camera with Mic

- **OPM-T038-A1**
  2.5" SSD/HDD Kit

- **OPM-C02C-A1**
  Two Isolated RS-232 & One Isolated USB 2.0 Full Speed PCIe Card

- **OPM-C02C-A2**
  Two Isolated RS-232 PCIe Card

- **OPM-C07U-A1/A2**
  Four Isolated USB 2.0 Full Speed Kit
Features

- Intel® 6th Generation Core™ i7 / i5 / i3 Processor
- Intel® H110 Chipset
- Supports Dual Channel DDR4 2133 SODIMM up to 32GB
- 19” SXGA LCD with LED Backlight
- Capacitive Multi-Touch Screen
- Two Gigabit Ethernet
- High Speed USB 3.0 Ports
- RS-232 x 2
- PCI-Express x 1 (optional)
- 25Wh Backup Battery (optional)

Specifications

**MAIN SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 6th Generation Core™ i7 / i5 / i3 Processor</td>
</tr>
<tr>
<td>System Memory</td>
<td>Supports Dual Channel DDR4 2133 SODIMM up to 32GB</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® H110</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 7, Windows® 10, Linux®</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA Hard Disk Drive/SSD x 1</td>
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<tr>
<td></td>
<td>Slim DVD-RW Drive x 1 (optional)</td>
</tr>
<tr>
<td>Security</td>
<td>Trusted Platform Module, RFID Reader (optional)</td>
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<tr>
<td></td>
<td>Smart Card Reader x 1 (optional)</td>
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<tr>
<td>Wireless Communication</td>
<td>802.11ac, Bluetooth 5.1 (optional)</td>
</tr>
<tr>
<td>Speaker</td>
<td>5W x 2</td>
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<tr>
<td>Function Key</td>
<td>Speaker Volume Up/Down, LCD Brightness Up/Down</td>
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<tr>
<td></td>
<td>LCD On/Off, Touch Screen On/Off, Reading Light On/</td>
</tr>
<tr>
<td></td>
<td>Off</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12V / DC 24V when backup battery is installed</td>
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</tbody>
</table>

**DISPLAY**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size / Type</td>
<td>19” TN LCD</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Luminance (cd/m² (TYP))</td>
<td>250 nits</td>
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<tr>
<td>Viewing Angle</td>
<td>170° (H) / 160° (V)</td>
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<tr>
<td>Contrast Ratio</td>
<td>1000:1</td>
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<tr>
<td>Back Light Life Time</td>
<td>30,000 Hours</td>
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<tr>
<td>Touch Screen</td>
<td>Capacitive Multi-Touch Screen</td>
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**I/O**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>USB</td>
<td>USB 3.0 x 4, USB 2.0 x 2</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS-232 x 2</td>
</tr>
<tr>
<td>Ethernet</td>
<td>1.5KV Isolated Gigabit LAN x 2</td>
</tr>
<tr>
<td>Video Out</td>
<td>Display Port 1.2 x 1, HDMI 1.4 x 1 (Supports</td>
</tr>
<tr>
<td></td>
<td>resolution up to 3840 x 2160)</td>
</tr>
<tr>
<td>Audio</td>
<td>Mic-in, Line-out</td>
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</table>

**Mechanical and Environmental**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C (32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting VESA</td>
<td>75/100 mm</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP53 in the front, IP54 in the back</td>
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<tr>
<td>Dimension</td>
<td>450 x 388 x 66 mm</td>
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<tr>
<td>Package Size</td>
<td>640 x 220 x 520mm</td>
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<tr>
<td>Gross Weight</td>
<td>17 kg (34 lbs)</td>
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<tr>
<td>Net Weight</td>
<td>7.5kg (16.5lbs)</td>
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<td>FCC Part 18 Class B</td>
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<td>UL: ANSI/AAMI ES60601-1:2012 (V3.1)</td>
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<td>cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)</td>
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</tbody>
</table>

※ All product specifications are subject to change without notice
19" Fanless 6th Generation Core i7 Powerful Medical All in One PC

Dimension / Unit: mm

Ordering Information

- MATE-1903ST-A11-1010
  Medical Panel PC, 19" LCD, i7, DC 12V, Capacitive Touch
- MATE-1903ST-A12-1010
  Medical Panel PC, 19" LCD, i5, DC 12V, Capacitive Touch

Optional Accessories

- 1255301204
  Medical Power Adapter, 120W, 12V
- 1255301206
  Medical Power Adapter, 120W, 24V
- OPM-T006-A2
  Smart Card Reader Kit
- OPM-T013-A2
  Slim Slot-in DVD-RW Drive
- OPM-C15W-A2
  WLAN Kit, IEEE 802.11ac + Bluetooth 5.1
- OPM-R03X-A1
  PCI Express[x1] Riser Kit
- OPM-S07R-A1
  RFID Reader Kit
- OPM-C02C-A1
  Two Isolated RS-232 & One Isolated USB 2.0 PCIe Card
- OPM-C02C-A2
  Two Isolated RS-232 PCIe Card
- OPM-T017-A4
  Hot Swap Rack w/Lock Kit for 2.5" HDD/SSD
- OPM-P09C-A4
  25Wh Backup Battery
MEDICA DISPLAY FOR MEDICAL DEVICE

Worldwide Medical Safety Standard Approval
All display meets the strictest medical, safety and EMC emissions standards including CE/FCC Class B Passed 18, EN 60601-1:2006

Key Features
- 15”~32” Medical Grade Display
- Touch function support
- Low power consumption with LED back light panel
SMALL TO LARGE LCD DISPLAY CHOICES
The Onyx slim display offers many LCD sizes to fulfill various requirements. 15” (1024 x 768), 15.6” (1920x1080), 21.5” (1920x1080), 23.8” (1920x1080), 27” (1920 X 1080).

FRABJOUS TOUCH EXPERIENCE
PCT multi-touch touchscreen solution can also be operated with gloved fingers and bare fingers alike.

GREEN AND LOW POWER CONSUMPTION
LED (light emitting diodes) backlighting technology, which offer the advantages over CCFL LCDs of reduced power consumption, better contrast, brightness and color range.

LONG TERM PRODUCT LIFE TIME SUPPORT
ONYX provides stable and long term support to our customers. Customers could focus on business promotion and product development.

FLEXIBILITY FOR CUSTOMIZATION REQUEST TO MEDICAL EQUIPMENT
Still couldn’t find the perfect match to your request? Don’t worry about it. ONYX could base your demand to provide the best solution.
Medica Display for Medical Device

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

Features

- 32" Display with UHD 4K (3840 x 2160) native resolution
- Thin and compact design with impact resistant screen
- Fanless and ventless design, easy-to-clean
- Wide view angle 178˚ (H)/178˚ (V)
- True Flat Screen with PCT Touch
- Physical button OSD Design

Specifications

DISPLAY

- Size: 32"
- Resolution: 3840 x 2160 pixels
- Max. Colors: 1.07B Colors
- Brightness (Typ.): 350 nits
- Viewing Angle (CR=10)(Typ.): 178˚ (H)/178˚ (V)
- Contrast Ratio (Typ.): 1000:1
- Touch Screen: Projected Capacitive Multi Touch Screen

SYSTEM

- OS Support: Windows® 7, Windows® 10

I/O

- 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
- Output Signal: DP 1.2 x 1 (Multi-Stream Transport), 3G SDI x 1 (Loop Through, support 1080P), Audio Out x 1, 5V/1A out x x
- USB Port: USB 2.0 x 1
- Serial Port: RS-232 x 1
- GPIO: RJ-11 x 1
- Speaker: Built-in 5W speaker x 2

MECHANICAL AND ENVIRONMENTAL

- Power Consumption: 55 W typical
- 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
- Power Requirement: External power adapter, AC IN: 100 ~ 240V, 24V
- Dimension: 799 x 478 x 63.7 mm
- Package Size: 980x260x700mm
- Gross Weight: 13.2 Kg
- Net Weight: 11.6 Kg

Certifications

- FCC: Part 18 Class B

Ordering Information

- MEDDP-632-P1-A1-0010
  32” 4K UHD, 350nits LCD Monitor. 3G SDIx1, VGAx1, HDMIx2, DVIx1, DPx1. P-CAP Med Adapter, Power cord

※ All product specifications are subject to change without notice
Medica Display for Medical Device

MEDDP-632F
32" Full-UHD Medical LCD Monitor

Features

- 32" Display with Full HD (1920 x 1080) native resolution
- Thin and compact design with impact resistant screen
- Fanless and ventless design, easy-to-clean
- Wide view angle 178˚(H)/178˚(V)
- True Flat Screen with PCT Touch
- Physical button OSD Design

Specifications

DISPLAY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Resolution</td>
<td>1920 x 1080 pixels</td>
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<tr>
<td>Max. Colors</td>
<td>16.7M Colors</td>
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<tr>
<td>Brightness (Typ.)</td>
<td>400 nits</td>
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<tr>
<td>Viewing Angle (CR=10)</td>
<td>178˚(H)/178˚(V)</td>
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<td>Contrast Ratio (Typ.)</td>
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SYSTEM

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td>OS Support</td>
<td>Windows® 7, Windows® 10</td>
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I/O

<table>
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<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Signal</td>
<td>VGA x 1, HDMI 1.4 x 1</td>
</tr>
<tr>
<td>USB Port</td>
<td>USB 2.0 x 1 for Touch Screen</td>
</tr>
<tr>
<td>Speaker</td>
<td>Built in 5W speaker x 2</td>
</tr>
</tbody>
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MECHANICAL AND ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Operating Temperature</td>
<td>0°C to 35°C</td>
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<tr>
<td>Storage Temperature</td>
<td>-20°C to 60°C</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10% to 90% RH, noncondensing</td>
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<tr>
<td>VESA</td>
<td>100mm x 200mm and 200mm x 200mm</td>
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<tr>
<td>IP Rating</td>
<td>IP65</td>
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<tr>
<td>Power Requirement</td>
<td>External power adapter, AC IN: 100 ~ 240V, 12V</td>
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<tr>
<td>Dimension</td>
<td>799 x 478 x 63.7 mm</td>
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<tr>
<td>Package Size</td>
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<tr>
<td>Gross Weight</td>
<td>12.3 Kg</td>
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<tr>
<td>Net Weight</td>
<td>11.1 Kg</td>
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Certifications

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<th>Specification</th>
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<td>CE: EN 60601-1-2:2015(V4.0)</td>
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<tr>
<td>FCC: Part 18 Class B</td>
<td></td>
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</tbody>
</table>

Ordering Information

MEDDP-632F-P1-A1-0010
32" FHD, 400nits LCD Monitor, HDMI x1, VGA x1, P-CAP, Med Adapter, Power cord

※ All product specifications are subject to change without notice
Medica Display for Medical Device

**MEDDP-627**
27” Slim Medical Display

---

**Features**
- 27” LCD Panel with LED Backlight
- Compact and Terse Design
- DVI x 1, HDMI x 1, DP x 1
- Wide view angle 178˚ (H)/178˚ (V)
- True Flat Screen with PCT Touch
- Invisible OSD Design
- Low Power Consumption
- DICOM as optional

**Specifications**

### Display
- **Size**: 27”
- **Resolution**: Full HD 1920 x 1080
- **Max. Colors**: 16.7M
- **Brightness (Typ.)**: 350 nits
- **Viewing Angle (CR=10) (Typ.)**: 178˚ (H)/178˚ (V)
- **Contrast Ratio (Typ.)**: 3000:1
- **Touch Screen**: Projective capacitive touch screen (optional)

### System
- **OS Support**: Windows ® XP, Windows ® 7, Windows ® 10
- **DICOM Support**: Optional

### I/O
- **Audio**: Audio-in x 1
- **Serial Port**: USB x 1 for touch controller
- **Signal**: DVI x 1, HDMI x 1, DP x 1
- **Speaker**: 2.5W speaker x 2 on back side

### Mechanical and Environmental
- **Power Consumption**: Full Loading: 38.5 Watts
- **VESA**: 100 x 100mm & 100 x 200mm
- **Power Requirement**: DC12V / 5A power input
- **Operating Temperature**: 5°C ~ 40°C (41°F ~ 104°F)
- **Storage Temperature**: -10°C ~ 60°C (14°F ~ 140°F)
- **Storage Humidity**: 10% ~ 90% @ 35°C, non-condensing
- **IP rating**: IP22
- **Dimension**: 637.8 x 378.2 x 62.5 mm
- **Packing Size**: 730 x 300 x 560 mm
- **Gross Weight**: 10.4kg (22.93lb)
- **Net Weight**: 6.6kg (14.55lb)

### Ordering Information
- **MEDDP-627HNN-A1-1010**: 27” LCD Monitor, 300 nits, DVI-Dx1.HDMIx1.DPx1.DC 12V Adapter
- **MEDDP-627HPN-A1-1010**: 27” LCD Monitor, 300 nits, P-CAP Touch, DVI-Dx1.HDMIx1.DPx1.DC 12V Adapter
- **MEDDP-627TND-A1-1010**: 27” LCD Monitor, 300 nits, DVI-Dx1.HDMIx1.DPx1.DC 12V Adapter, DICOM
- **MEDDP-627TPD-A1-1010**: 27” LCD Monitor, 300 nits, P-CAP Touch, DVI-Dx1.HDMIx1.DPx1.DC 12V Adapter, DICOM

© All product specifications are subject to change without notice
Medica Display for Medical Device

MEDDDP-624

24" Slim Medical Display

Features

- 23.8" LCD Panel with LED Backlight
- Compact and Terse Design
- DVI x 1, HDMI x 1, DP x 1
- True Flat Screen with PCT Touch
- Invisible OSD Design
- Low Power Consumption
- Audio – 2 x built-in

Specifications

<table>
<thead>
<tr>
<th>DISPLAY</th>
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<tbody>
<tr>
<td>Size</td>
<td>23.8&quot;</td>
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<tr>
<td>Resolution</td>
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<tr>
<td>Max. Colors</td>
<td>16.7M</td>
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<tr>
<td>Brightness (Typ.)</td>
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<td>Viewing Angle (CR=10) (Typ.)</td>
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<td>Contrast Ratio (Typ.)</td>
<td>1000:1</td>
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<tr>
<td>Touch Screen</td>
<td>Projective capacitive touch screen (optional)</td>
</tr>
<tr>
<td>IP Grade</td>
<td>IP 22</td>
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<thead>
<tr>
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<tbody>
<tr>
<td>OS Support</td>
<td>Windows® XP, Windows® 7, Windows® 10</td>
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<tr>
<td>DICOM Support</td>
<td>Optional</td>
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<table>
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<tr>
<th>I/O</th>
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<tbody>
<tr>
<td>Audio</td>
<td>Audio-in x 2</td>
</tr>
<tr>
<td>Serial Port</td>
<td>USB x 1 for touch controller</td>
</tr>
<tr>
<td>Signal</td>
<td>DVI x 1, HDMI x 1, DP x 1</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W speaker x 2 on back side</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>MECHANICAL AND ENVIRONMENTAL</th>
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<tbody>
<tr>
<td>Power Consumption</td>
<td>Full Loading: 36.7 Watts</td>
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<tr>
<td>VESA</td>
<td>100 x 100mm &amp; 100 x 200mm</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC12V / 5A power input</td>
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<tr>
<td>Operating Temperature</td>
<td>5°C – 40°C (41°F – 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-10°C – 60°C (14°F – 140°F)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10% – 90% @ 35°C, non-condensing</td>
</tr>
<tr>
<td>Dimension</td>
<td>576 x 344.3 x 62.1 mm</td>
</tr>
<tr>
<td>Packing Size</td>
<td>645 x 545 x 295 mm</td>
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<tr>
<td>Gross Weight</td>
<td>8.6kg (19lb)</td>
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<tr>
<td>Net Weight</td>
<td>6.4kg (14.11lb)</td>
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<td></td>
<td>FCC: Part 18 Class B</td>
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</table>

Ordering Information

- MEDDDP-624HNN-A1-1010
  23.8" LCD Monitor, 400 nits, DVI-D x 1, HDMI x 1, DP x 1, DC 12V Adapter

- MEDDDP-624HPN-A1-1010
  23.8" LCD Monitor, 400 nits, P-CAP Touch, DVI-D x 1, HDMI x 1, DP x 1, DC 12V Adapter

- MEDDDP-624TND-A1-1010
  23.8" LCD Monitor, 400 nits, DVI-D x 1, HDMI x 1, DP x 1, DC 12V Adapter, DICOM

- MEDDDP-624TPD-A1-1010
  23.8" LCD Monitor, 400 nits, P-CAP Touch, DVI-D x 1, HDMI x 1, DP x 1, DC 12V Adapter, DICOM

※ All product specifications are subject to change without notice
# Medica Display for Medical Device

## MEDDP-722

22" Slim Medical Display

## Features

- 21.5" LCD Panel with LED Backlight
- Compact and Tense Design
- DVI x 1, HDMI x 1, DP x 1
- True Flat Screen with Capacitive Touch
- Speaker -2 x built-in
- Support 2M Camera

## Specifications

### Display

- Size: 21.5"
- Resolution: Full HD 1920 x 1080
- Max. Colors: 16.7M
- Brightness (Typ.): 250 nits
- Viewing Angle (CR=10): 178°(H)/178°(V)
- Contrast Ratio (Typ.): 3000:1
- Touch Screen: Projective capacitive touch screen (optional)

### System

- OS Support: Windows® 7, Windows® 10
- Webcamera: 2MP

### I/O

- Video Input: DVI x 1, HDMI x 1, VGA x 1
- Audio: Audio-in x 1
- USB: USB x 1 for touch controller
- Speaker: 5W speaker x 2 on back side

### Mechanical and Environmental

- VESA: 75/100 mm VESA mount
- Power Requirement: DC12V
- Power Consumption: Full Loading: 28.7Watts
- Operating Temperature: 5°C ~ 40°C(41°F ~ 104°F)
- Storage Temperature: -10°C ~ 60°C(14°F ~ 140°F)
- Storage Humidity: 10%~90%@35°C, non-condensing
- IP Rating: Protection: front IP54 - rear IPX1
- Dimension: 546 x 351 x 56 mm
- Packing Size: 570 x 478 x 260 mm
- Gross Weight: 8.4kg (18.51lb)
- Net Weight: 5.7kg (12.56lb)

## Ordering Information

- MEDDP-722-G1-A1-0010
  Monitor. 22" 250 nits.DC 12V Glass
- MEDDP-722-G1-A2-0010
  Monitor. 22" 250 nits.DC 12V Glass. 2M Camera
- MEDDP-722-P1-A1-0010
  Monitor. 22" 250 nits.DC 12V.PCT
- MEDDP-722-P2-A1-0010
  Monitor. 22" 250 nits.DC 12V.PCT. 2M Camera

## Optional Accessories

- 125530036A (AOH)(TF)Medical Power Adaptor.AC/DC.100 – 240V.12V.3A.36W.Adapter. ATM036T-P120(Level VI)
- 1700252001 (AOH)(TF)DVI-D Cable.(24+)P DVI (M).(24+)P DVI (M).200cm
- 1704191800 (AOH)(TF)HDMI Cable.HDMI 19P(F) Molding.HDMI 19P(M) Molding.180cm
- 1704151800 (AOH)(TF)VGA Cable.D-Sub 15P(M) Molding.D-Sub 15P(M) Molding.180cm
- 1700031802 (AOH)(TF)Audio Cable.3.5mm 3Pole Stereo Plug(Black).3.5mm 3Pole Stereo Plug(Green).180cm

© All product specifications are subject to change without notice
Medica Display for Medical Device

MEDDP-622
22" Slim Medical Display

Features
- 21.5" LCD Panel with LED Backlight
- Compact and Terse Design
- DVI x 1, HDMI x 1, DP x 1
- True Flat Screen with Capacitive Touch
- Invisible OSD Design
- Speaker -2 x built-in

Specifications

**DISPLAY**

- Size: 21.5"
- Resolution: Full HD 1920 x 1080
- Max. Colors: 16.7M
- Brightness (Typ.): 350 nits
- Viewing Angle (CR=10)(Typ.): 178°(H)/178°(V)
- Contrast Ratio (Typ.): 1000:1
- Touch Screen: Projective capacitive touch screen (optional)
- IP Grade: IP 22

**SYSTEM**

- OS Support: Windows® XP, Windows® 7, Windows® 10
- DICOM Support: Optional

**I/O**

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

**MECHANICAL AND ENVIRONMENTAL**

- Power Consumption: Full Loading: 28.7Watts
- VESA: 100 x 100mm & 100 x 200mm
- Power Requirement: DC12V
- Operating Temperature: 5°C ~ 40°C(41°F ~ 104°F)
- Storage Temperature: -10°C ~ 60°C(14°F ~ 140°F)
- Storage Humidity: 10%~90%@35°C, non-condensing
- Dimension: 526 x 321 x 57 mm
- Packing Size: 570 x 478 x 260 mm
- Gross Weight: 8.4kg (18.51lb)
- Net Weight: 5.7kg (12.56lb)

**Certifications**

FCC: Part 18 Class B

Ordering Information

- MEDDP-622HNN-A1-1010
  21.5" LCD Monitor. 350 nits, DVI-Dx1, HDMIx1, DPx1, DC 12V Adapter
- MEDDP-622HPN-A1-1010
  21.5" LCD Monitor. 350 nits, P-CAP Touch, DVI-Dx1, HDMIx1, DPx1, DC 12V Adapter
- MEDDP-622TND-A1-1010
  21.5" LCD Monitor. 350 nits, DVI-Dx1, HDMIx1, DPx1, DC 12V Adapter, DICOM
- MEDDP-622TPD-A1-1010
  21.5" LCD Monitor. 350 nits, P-CAP Touch, DVI-Dx1, HDMIx1, DPx1, DC 12V Adapter, DICOM

※ All product specifications are subject to change without notice
Medica Display for Medical Device
MEDDP-615
15.6" Slim Medical Display

Features
- 15.6" 1920 x 1080 Resolution Display
- Projected Capacitive Multi-touch
- VGA input and HDMI input
- Stylish and elegant design

Specifications

DISPLAY
- Size: 15.6"
- Resolution: Full HD 1920 x 1080
- Max. Colors: 16.7M
- Brightness (Typ.): 300 nits
- Viewing Angle (CR=10)(Typ.): 85˚(H)/85˚(V)
- Contrast Ratio (Typ.): 700:1
- Touch Screen: Projective capacitive touch screen

SYSTEM
- OS Support: Windows® XP, Windows® 7, Windows® 10

I/O
- Audio: Audio-in x 1
- Serial Port: USB x 1 for touch controller
- Signal: VGA x 1, HDMI x 1
- Speaker: 1 W speaker x 2 on back side

MECHANICAL AND ENVIRONMENTAL
- Power Consumption: Full Loading : 24.3.7Watts
- VESA: 75 x 75mm & 100 x 100mm
- Power Requirement: DC12V / 5A power input
- Operating Temperature: 5°C ~ 40°C (41°F ~ 104°F)
- Storage Temperature: -10°C ~ 60°C (14°F ~ 140°F)
- Storage Humidity: 10%~90%@35°C, non-condensing
- Dimension: 387.8 x 232.9 x 38.4 mm
- Packing Size: 425.3 x 269.2 x 45.6 mm
- Gross Weight: 6.5 kg (14.33lb)
- Net Weight: 2.8 kg (6.2lb)

Certifications
- CE: EN 60601-1-2:2015(V4.0), EN 60950-1
- 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)

Ordering Information
- MEDDP-615HPN-A1-1010
  15.6" LCD Monitor, 300 nits, P-CAP touch, VGA x 1, HDMI x 1, DC 12V Adapter

All product specifications are subject to change without notice.
Medica Display for Medical Device

MEDDP-415
15" Slim Medical Display

Features

- 15" 1024 x 768 Resolution Display
- P-cap touch
- Stylish And Elegant Design

Specifications

DISPLAY

- Size: 15"
- Resolution: 1024 x 768
- Max. Colors: 16.2M
- Brightness (Typ.): 300 nits
- Viewing Angle (CR=10)(Typ.): 80˚(H)/80˚(V)
- Contrast Ratio (Typ.): 700:1
- Touch Screen: P-cap Touch, Protective Glass

SYSTEM

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

I/O

- Audio: Audio-in x 1
- Serial Port: USB x 1 for touch controller
- Signal: VGA x 1, HDMI x 1
- Speaker: 1 W speaker x 2 on backside

MECHANICAL AND ENVIRONMENTAL

- Power Consumption: Full Loading:24.3.7Watts
- VESA: 75 x 75mm & 100 x 100mm
- Power Requirement: DC12V / 5A power input
- Operating Temperature: 5°C ~ 40°C(41°F ~ 104°F)
- Storage Temperature: -10°C ~ 60°C(14°F ~ 140°F)
- Storage Humidity: 10%~90%@35°C, non-condensing
- Dimension: 352.5x 276.1 x 45.0 mm
- Packing Size: 402.5x 326.1 x 80.0 mm
- Gross Weight: 3.7 kg (8.16lb)
- Net Weight: 2.6kg (5.73 lb)

Ordering Information

- MEDDP-415HNN-A1-1010  15" LCD Monitor.300 nits,VGAx1.HDMIx1.DC 12V Adapter
- MEDDP-415HPN-A1-1010  15" LCD Monitor.300 nits, P-CAP touch.VGAx1.HDMIx1.DC 12V Adapter

※ All product specifications are subject to change without notice
MEDICAL COMPUTER FOR MEDICAL DEVICE

Dependable, Ready to Use Platform for Medical Equipment & OEM/ODM

MEDPC series is designed to achieve the high requirements of Hospital IT field and medical task that a hospital has. It is fanless design ensures that it will be quiet, and stop infection spreading from hiding in the fan. It has wide selections of up-to-date upgrades, and it has 5-7 lifecycle. Best of all, this Medical Grade Computer is already medical certified just like all of our products.

Key Features

- Medical certification with high performance CPU
- Fanless design and no bacterial infection concern
- Flexible function extension ability
- Different options for different purpose

MEDPC is certified with EN 60601-1, UL 60601-1, FCC & CE Class B regulation.

Detailed ISO 13485 and 14971 Risk Management Control guarantee product quality.

Latest/Current Off-the-shelf Processor

From Intel® Quad Core i7, to Atom™ series, you can choose the best processor for the system. No matter for imaging capturing, data analyzing, photo viewing, or just EMR storage, you can always find right chipset.

Unique Medical Device Functions

MedPC products with IP-X1 enclosure are easy to clean with detergent and water splitting proof. Isolated IO interfaces like Ethernet, COM and USB let system connect to other medical device or accessories risk free.

5-7 Year Longevity Lifecycle Support

Your time and efforts can now focus on business promotions and product development. A careful design and vendor approval approach as well as scheduled reviews, inimizes unwelcome surprises during the product life cycle.
**READY-TO-USE MEDICAL CERTIFIED PLATFORM**

MEDPC is certified with EN 60601-1, UL 60601-1, FCC & CE Class B regulation. Detailed ISO 13485 and 14971 Risk Management Control guarantee product quality.

**LATEST/CURRENT OFF-THE-SHELF PROCESSOR**

From Intel® Quad Core i7, to Atom™ series, you can choose the best processor for the system. No matter for imaging capturing, data analyzing, photo viewing, or just EMR storage, you can always find right chipset.

**UNIQUE MEDICAL DEVICE FUNCTIONS**

MedPC products with IP-X1 enclosure are easy to clean with detergent and water splitting proof. Isolated IO interfaces like Ethernet, COM and USB let system connect to other medical device or accessories risk free.

**5-7 YEAR LONGEVITY LIFECYCLE SUPPORT**

Your time and efforts can now focus on business promotions and product development. A careful design and vendor approval approach as well as scheduled reviews, inimizes unwelcome surprises during the product life cycle.
Medical Computer for Medical Device

MEDPC-9200

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

Features

- Intel® 6/7th Generation Core i, Processor
- Supports DDR4 up to 32GB
- Extension area: PCI-Express [x1] x 1 (optional)
- Two Independent , Display: DP/HDMI
- Supports TPM 2.0
- Modularize Design
- Support Inte Modivus AI card

Application

- HIS, LIS, RIS
- Pharmaceutical industry
- Biotech Lab
- Signage in hospital
- Equipment control

Specifications

**MAIN SPECIFICATIONS**

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<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 7th/6th Generation Core™ iSeries</td>
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<tr>
<td>System Memory</td>
<td>Supports Dual Channel DDR4 SODIMM up to 32 GB</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 7, Windows® 8, Windows® 10, Linux®</td>
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<tr>
<td>Extension area</td>
<td>PCI-Express [x1] x 1 (optional)</td>
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<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA SSD x 1</td>
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<td>Security</td>
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<td>Power Requirement</td>
<td>DC 12V</td>
</tr>
<tr>
<td>USB</td>
<td>USB 3.0 x 4, USB 2.0 x 2</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS-232 x 2</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit LAN x 2</td>
</tr>
<tr>
<td>Video Out</td>
<td>Display Port x 1 (Support up to 1920 x 1200 @60 Hz), HDMI 1.4 x 1</td>
</tr>
<tr>
<td>Audio</td>
<td>Mic-in, Line-out</td>
</tr>
</tbody>
</table>

**MECHANICAL AND ENVIRONMENTAL**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C(32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(4°F ~ 140°F)</td>
</tr>
<tr>
<td>Dimension</td>
<td>197 x 197 x 59.5 mm for main layer</td>
</tr>
<tr>
<td></td>
<td>197 x 197 x 44 mm for extension layers</td>
</tr>
<tr>
<td>Package Size</td>
<td>300 x 280 x 95 mm</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>3.3 kg (7.25 lb) in the single layer,</td>
</tr>
<tr>
<td></td>
<td>4.0 kg (7.25 lb) in two layer</td>
</tr>
<tr>
<td>Net Weight</td>
<td>2.5 kg in the single layer,</td>
</tr>
<tr>
<td></td>
<td>3.7 kg in two layers</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE: EN 60601-1-2-2015(V4.0),</td>
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<tr>
<td></td>
<td>FCC: Part 18 Class B</td>
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<td></td>
<td>UL: ANSI/AAMI ES60601-1:2012 (V3.1)</td>
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<tr>
<td></td>
<td>cUL: CAN/CSA-C22.2 No. 60601-1-2014 (V3.1)</td>
</tr>
</tbody>
</table>

※ All product specifications are subject to change without notice
High Performance Medical Grade PC with Intel ® 6th Generation Core™ iSeries

**Dimension / Unit: mm**

---

**Ordering Information**

- MEDPC-9200-N1-A1-0010
  Medical Box PC.i7-6700TE.Fanless.DC 12V
- MEDPC-9200-N2-A1-0010
  Medical Box PC.i5-6500TE.Fanless.DC 12V

**Optional Accessories**

- **1255300907**
  (AOH)(TF) Power Adapter.100-240Vac.50/60Hz.1.5A..12Vdc.7.5A.90W.FSP.FSP090M-RHA(w/Lock)
- OPM-C16W-A7
  WLAN Kit.802.11a/b/g/n w/BT 4.0.Atheros AR5B22
- M92-SEC-A1
  MEDPC-9200.extension area with PCIe[x1] riser
- OPM-T029-A0
  Intel modivius AI card for MEDPC-9200
- OPM-C15W-A7
  WLAN Kit.802.11a/b/g/n/ac BT 5.0 Intel AC9260
## Medical Computer for Medical Device
**MEDPC-9300**
High Performance Medical Grade PC with AMD Ryzen™ Embedded V1000

### Features
- AMD Ryzen Embedded V1005B Processor up to 3.6GHz
- Supports DDR4 SO-DIMM, Max. 32GB
- AMD Vega GPU with 8 Compute Units
- Three Independent 4K Display: 1x HDMI 2.0, 1x DisplayPort, 1x USB Type-C
- 1x USB 3.1 Type-C, 2x USB 3.1 Type-A
- 1x PCI Express[x8] in Extension Layer(optional)
- Supports fTPM2.0

### Application
- HIS, LIS, RIS
- Pharmaceutical industry
- Biotech Lab
- Signage in hospital
- Equipment control

### Specifications

#### SYSTEM
- **Processor**: AMD Ryzen™ Embedded V1005B Processor
- **System Memory**: DDR4 SoDIMM x2, Max. 32GB
- **Graphics**: AMD Vega GPU with 8 Compute Units
- **Expansion Interface**: PCI Express[x8] x1
- **Storage Disk Drive**: 2.5” SATA SSD x1
- **Security**: fTPM2.0
- **Wireless Communication**: 802.11ac/a/b/g/n(optional), Bluetooth(optional)
- **Power Requirement**: DC 12~24V
- **OS Support**: Win 10 IoT Enterprise 64-bit / Linux Ubuntu 64-bit

#### DISPLAY
- **Video Out**: 1x HDMI 2.0, 1x Display Port 1.4, 1x USB Type-C
- **Display**: Up to 3840 x 2160 resolution, at 60Hz
- **HDMI**: Up to 3840 x 2160 resolution, at 60Hz

#### I/O
- **USB**: 2x USB 3.1 Type-A, 1x USB 3.1 Type-C, 2x USB2.0
- **Serial Port**: 2x RS-232
- **Audio**: Mic, Line-out
- **LAN**: 2x Gigabit Ethernet
- **Audio Jack**: Mic, Line-out

#### MECHANICAL AND ENVIRONMENTAL
- **Operating Temperature**: 0°C ~ 40°C(32°F ~ 104°F)
- **Storage Temperature**: -20°C ~ 60°C(-4°F ~ 140°F)
- **Dimension**: 197 x 197 x 59.5 mm for main layer, 197 x 197 x 44 mm for extension layers
- **Package Size**: 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 layers
- **Net Weight**: 2.5 kg in the single layer, 3.7 kg in two layers

※ All product specifications are subject to change without notice
High Performance Medical Grade PC with AMD Ryzen™ Embedded V1000

**Dimension / Unit: mm**

**Ordering Information**

- MEDPC-9300-N1-A1-0010
  MEDPC-9300. AMD Ryzen™ Embedded V1605B.

**Optional Accessories**

- 1255301205
  (AOH)(TF)Medical Power Adaptor.AC/DC.100-240V.12V.10A.120W.W/4P DIN.Adapter.ATM-P120
- M93-SEC-A1
  MEDPC-9300. extension area.
- OPM-C12W-A10
  WLAN Kit.Qualcomm Atheros.802.11ac/a/b/g/n.BT 4.1.with dual band antenna. MEDPC-9300
- OPM-C15W-A10
  WLAN Kit.802.11a/b/g/n/ac.BT 5.dual ext. antenna.Intel AC 9260NGW.GIE.NV,999LV6.for MEDPC-9300
MEDPC-2100
Ultra Slim Medical Grade PC with Intel Bay Trail SoC

Features
- Intel® Bay Trail J1900 (Quad Core) 2GHz
- Multiple display output support
- Fanless easy clean design
- Mini Size

Application
- HIS, LIS, RIS
- Pharmaceutical industry
- Biotech Lab
- Signage in hospital
- Equipment control

Specifications

**MAIN SPECIFICATIONS**
- **Processor**: Intel® Celeron J1900 (Quad Core) 2GHz
- **Video Chipset**: Intel® HD Graphics
- **Display Memory**: Shared Memory
- **System Memory**: 204-pin DDR3L support to 8GB
- **Expansion**: 1 x Half size Mini Card Slot ; 1 Mini card slot
- **System Storage**: CFast Card x 1
- **OS Support**: Windows® 7, Windows® 8, Windows®10, Linux®

**I/O**
- **USB**: USB 2.0 x 3, USB 3.0 x 1
- **COM Port**: RS-232 x 1
- **Video Interface**: VGA x 1, HDMI 1.4a x 1
- **Power Jack**: DC Power Input Connector
- **Ethernet**: GbE LAN x 1 by RJ-45
- **SMA Connector**: SMA Connector for WLAN antenna (removable) (optional)
- **Power Switch**: Power switch button and 2 LED indicator (HDD, SYS) (Orange Red, Green)
- **Audio**: Line out / Line-in

**MECHANICAL AND ENVIRONMENTAL**
- **Power Consumption**: Full Loading: 38.453Watts
- **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
- **Package Size**: 305 x 225 x 230 mm
- **Gross Weight**: 2.4kg (5.28lb)
- **Net Weight**: 1.2kg (2.64lb)
  - FCC: Part 18 Class B
  - UL: ANSI/AAMI ES60601-1:2012 (V3.1)
  - cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

※ All product specifications are subject to change without notice
Ultra Slim Medical Grade PC with Intel Bay Trail SoC

Dimension / Unit: mm

Ordering Information

- **MEDPC-2100-A1-1010**
  - Embedded, DC 12V, 2GB RAM, 1 LAN, 1 USB 2.0, 1 USB 3.0, 1 VGA, 1 HDMI, 1 COM

- **MEDPC-2100-A2-1010**
  - Embedded, Intel Celeron J1900, DC 12V, 1 VGA, 1 HDMI, 1 COM, 3 USB 2.0, 1 USB 3.0, 1 LAN, 4G RAM, CFast

Optional Accessories

- **1757306039**
  - Medical Power Adaptor: 100 ~ 240V, 12V, 2.5A, 60W, DC, with lock, adapter: ATM065-P120 (w/core)

- **OPM-C16W-A7**
  - WLAN Kit: Atheros AR1111, 802.11b/g/n+BT 4.0, Mini Card, dual white ext. antenna, for MEDPC-2100

- **OPM-C15W-A11**
  - WLAN Kit: 802.11a/b/g/n/AC, BT 5. dual ext. antenna, Intel AC9260NGW2IE+NV, 999LV6, for MEDPC-2100
Onyx is proud to introduce its medical infotainment solutions to reduce the workload of nurses and maximize patient’s hospital experience during their stays. 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 ARM CPUs, Onyx Infotainment series allows customers to select from a wide variety of bedside solutions that best fits their need and budget.

Key Features

- HD video quality with HDMI input
- 10.1” to 18.5” Wide Color TFT LCD w/ Multi Touch
- USB interface to host computer
- Light Weight from 1.5 to 3.2kg
- Wire Remote Control w/ handset Function
- Smart Card Reader / MSR / VOIP Phone, Web Camera, High Quality Speakers
- Reading Light
- Extension Features: RFID, Smart Card Reader, Barcode scanner
- EN60601-1 / UL 60601-1
COMPLETE RANGE OF MEDICAL SOLUTIONS TO SUIT YOUR NEEDS
From display systems such as bedside monitors to medical grade boxPCs and all-in-one terminals, Onyx offers a comprehensive assortment of medical IT solutions to cover virtually any computing need in the healthcare community.

PERIPHERAL SUPPORT FEATURES THAT EXTEND YOUR EFFICIENCY
Increasing the efficiency of your healthcare facility is conveniently managed with the addition of intelligent peripheral devices like smart card and magnetic swipe card readers, high resolution webcams, and 10-point multi-touch displays.

ERGONOMIC AND COST-EFFECTIVE DESIGN
The Bedside Infotainment Series offers solutions that are both lightweight and compact in size, making them easy to carry, install, and manage for medical staff. Units with an 18.5” display weigh only 3.5kg, while units with an 11.6” display weigh just 1.5kg. The competitively priced Bedside Infotainment Series makes it an ideal solution to fit a multitude of medical IT applications, while at the same time saving on your budget.

POWER OVER ETHERNET (POE)
The advantages of using PoE include providing a single cable for both data and power that eliminates the need for extra power cords; ease of installation as there is no need to coordinate data and power sources which can leave extra lengths of exposed cabling; and the ability to use existing infrastructure, minimizing interruptions to facilities and patients.

MULTIFUNCTIONAL REMOTE CONTROL
Controlling the Bedside Infotainment system has been made as simple and convenient as possible with the multifunctional remote control. The controller includes a VOIP phone as well as all buttons necessary to control the unit. An optional 2D barcode scanner is also available.
Healthcare Infotainment All In One Computer

ONYX-BE153R
15.6” Fanless Android Bedside Computer

Features

- Rockchip RK3288 Processor
- Android 6.0
- 15.6” Wide Color TFT LCD Touch Terminal
- PCT with Multi-Touch support
- Intuitive Front Access Function Keys
- IP65 Waterproof in front
- Optional VOIP Phone, Webcam and RFID.
- EN 60601-1, UL 60601-1

Specifications

**MAIN SPECIFICATIONS**

- **Processor**: Rockchip RK3288 ARM Cortex-A17 QC 1.6GHz
- **System Memory**: DDR3L 2GB
- **Expansion Interface**: Mini PCIe Slot x 1
- **Storage Disk Drive**: 16GB eMMC
- **Wireless Communication**: 802.11 ac + BT 4.1
- **Camera**: 5 Megapixels
- **Speaker**: 3W x 2
- **Security**: 13.56MHz RFID Reader (Optional)
- **Function Key**: Power, Volume Up/Down, Brightness Up/Down, LCD On/Off, Touch On/Off
- **Power Requirement**: DC 12V / Power Over Ethernet
- **OS Support**: Android 6.0

**DISPLAY**

- **Size / Type**: 15.6” (16:9) Color TFT LCD
- **Max. Resolution**: 1920 x 1080 FHD
- **Luminance(cd/m2)(TYP)**: 220 nits
- **Max. Colors**: 16.7 M
- **Viewing Angle**: 90 (H)/60 (V)
- **Contrast Ratio**: 500:1
- **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
- **SD Card Slot**: Micro SD x1
- **DC-In**: DC-In Jack x1

**MECHANICAL AND ENVIRONMENTAL**

- **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)
- **Mounting**: VESA 75/100 mm
- **Degree of Protection**: Front Panel: IP65, Whole Unit: IP54
- **Dimension**: 397.8 x 268.0 x 42.3 mm
- **Package Size**: 721 x 224 x 464 mm
- **Gross Weight**: 6.5 kg (14.33lb)
- **Net Weight**: 2.8 kg (6.17lb)
15.6” Fanless Android Bedside Computer

**Dimension / Unit: mm**

![Dimension Diagram]

**Ordering Information**

- ONYX-BE153R-P01-A1-0201
  - RISC Beside Terminal.RK3288,15.6.C-TS.2GB RAM.16GB eMMC.Camera.POE.Android 6.x
- ONYX-BE153R-P01-A1-0202
  - RISC Beside Terminal.RK3288,15.6.C-TS.2GB RAM.16GB eMMC.POE.Android 6.x

**Optional Accessories**

- 1757306039
  - Medical Adapter.60W.12W/5A
- OPM-T018-A1
  - VoIP Handset w/o keypads
Healthcare Infotainment All In One Computer
ONYX-BE122R
11.6” Fanless Android Bedside Computer

Features

- Rockchip RK3288 Processor
- Android 6.0
- 11.6" Wide Color TFT LCD Touch Terminal
- PCT with Multi-Touch support
- Intuitive Front Access Function Keys
- IP65 Waterproof in front
- Optional VOIP Phone, Webcam and RFID
- EN 60601-1, UL 60601-1

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Rockchip RK3288 ARM Cortex-A17 QC 1.6GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>DDR3L 2GB</td>
</tr>
<tr>
<td>Expansion Interface</td>
<td>Mini PCIe Slot x 1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>16/64GB eMMC</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 ac + BT 4.1</td>
</tr>
<tr>
<td>Speaker</td>
<td>2 W x 2</td>
</tr>
<tr>
<td>Camera</td>
<td>5 Megapixels</td>
</tr>
<tr>
<td>Security</td>
<td>13.36MHz RFID Reader (Optional)</td>
</tr>
<tr>
<td>Function Key</td>
<td>Power, Volume Up/Down, Brightness Up/Down</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12V / Power Over Ethernet</td>
</tr>
<tr>
<td>OS Support</td>
<td>Android 6.0</td>
</tr>
<tr>
<td>Display</td>
<td>11.6&quot; (16:9) Color TFT LCD</td>
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<tr>
<td>Max. Resolution</td>
<td>1920 x 1080 HD</td>
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<tr>
<td>Luminance</td>
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<td>Max. Colors</td>
<td>16.7 M</td>
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<td>90° (H)/60° (V)</td>
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<tr>
<td>Contrast Ratio</td>
<td>500:1</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Projected Capacitive Touch</td>
</tr>
<tr>
<td>I/O</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>USB 2.0 (Type-A) x 2</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS-232 x 1 (Optional)</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit LAN x 1 (Support Power over Ethernet)</td>
</tr>
<tr>
<td>Audio</td>
<td>3.5mm Phone jack x 1</td>
</tr>
<tr>
<td>Video</td>
<td>HDMI Out x 1</td>
</tr>
<tr>
<td>SD Card Slot</td>
<td>Micro SD x 1</td>
</tr>
<tr>
<td>DC in</td>
<td>DC-in jack x 1</td>
</tr>
<tr>
<td>MECHANICAL AND ENVIRONMENT</td>
<td></td>
</tr>
<tr>
<td>Infection Control</td>
<td>Anti-Bacteria (Optional)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C (32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 75/100 mm</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>Front Panel: IP55, Whole Unit: IPX1</td>
</tr>
<tr>
<td>Dimension</td>
<td>299.9 x 204.9 x 38.9 mm</td>
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<tr>
<td>Package Size</td>
<td>540 x 230 x 370 mm</td>
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<tr>
<td>Gross Weight</td>
<td>4 kg (8.82lb)</td>
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<tr>
<td>Net Weight</td>
<td>1.5 kg (3.3lb)</td>
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<td>FCC: Part 18 Class B</td>
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<tr>
<td></td>
<td>UL: ANSI/AAMI ES60601-1:2012 (V3.1)</td>
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<tr>
<td></td>
<td>cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)</td>
</tr>
</tbody>
</table>

※ All product specifications are subject to change without notice
### Ordering Information

- **ONYX-BE122R-P01-A1-0201**
  RISC Beside Terminal.RK3288.11.6”.C-TS.2GB RAM.16GB eMMC.Camera.POE.Android 6.x
- **ONYX-BE122R-P01-A1-0202**
  RISC Beside Terminal.RK3288.11.6”.C-TS.2GB RAM.16GB eMMC.POE.Android 6.x

### Optional Accessories

- **1757306039**
  Medical Adapter.60W.12W/5A
- **OPM-T018-A1**
  VoIP Handset w/o keypads
# Healthcare Infotainment All In One Computer

## ONYX-BE102R

10.1” Fanless Android Bedside Computer

### Features
- Rockchip RK3288 Processor
- Android 6.0
- 10.1” Wide Color TFT LCD Touch Terminal
- PCT with Multi-Touch support
- Intuitive Front Access Function Keys
- IP65 Waterproof in front
- Optional VOIP Phone, Webcam and RFID
- EN 60601-1, UL 60601-1

### Specifications

#### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
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<tr>
<td>Processor</td>
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<td>System Memory</td>
<td>DDR3L 2GB</td>
</tr>
<tr>
<td>Expansion Interface</td>
<td>Mini PCIe Slot x 1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>16GB eMMC</td>
</tr>
<tr>
<td>Security</td>
<td>13.56MHz RFID Reader (optional)</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11 ac + BT 4.1</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W x 2</td>
</tr>
<tr>
<td>Camera</td>
<td>5 Megapixels</td>
</tr>
<tr>
<td>Function Key</td>
<td>Power, Speaker Volume Up/Down, LCD Brightness Up/Down</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12V / Power over Ethernet</td>
</tr>
<tr>
<td>OS Support</td>
<td>Android 6.0</td>
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#### Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size / Type</td>
<td>10.1” LCD (16:9) Color TFT LCD</td>
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<tr>
<td>Max. Resolution</td>
<td>1280 x 800</td>
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<td>Luminance(cd/m²)(TYP)</td>
<td>400 nits</td>
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<tr>
<td>Max. Colors</td>
<td>16.7 M</td>
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<tr>
<td>Viewing Angle</td>
<td>170˚(H)/170˚(V)</td>
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<tr>
<td>Contrast Ratio</td>
<td>800:1</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Projected Capacitive Touch</td>
</tr>
</tbody>
</table>

#### I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB</td>
<td>USB 2.0 (Type-A) x 2</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS-232 x 1 (Optional)</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit LAN x 1 (Support Power over Ethernet)</td>
</tr>
<tr>
<td>Audio</td>
<td>3.5mm Phone Jack x 1</td>
</tr>
<tr>
<td>Video</td>
<td>HDMI Out x 1</td>
</tr>
<tr>
<td>SD Card Slot</td>
<td>Micro SD x 1</td>
</tr>
<tr>
<td>DC In</td>
<td>DC-In Jack x 1</td>
</tr>
</tbody>
</table>

#### Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Infection Control</td>
<td>Anti-Bacteria (Optional)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C (32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 75/100 mm</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>Front Panel: IP65, Whole Unit: IPX1</td>
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<tr>
<td>Dimension</td>
<td>262.36 x 191.10 x 45 mm</td>
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<td>Package Size</td>
<td>402 x 190 x 335 mm</td>
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<tr>
<td>Gross Weight</td>
<td>3.7 kg (8.2lb)</td>
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<tr>
<td>Net Weight</td>
<td>1.2 kg (2.6lb)</td>
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#### Certifications
- CE: EN 60601-1-2:2016(V4.6)  
- FCC: Part 18 Class B  
- UL: ANSI/AAMI ES60601-1-2012 (V3.1)  
- cUL: CAN/CSA-C22.2 No. 60601-1-2014 (V3.1)

※ All product specifications are subject to change without notice.
10.1” Fanless Android Bedside Computer

**Dimension / Unit: mm**

![Diagram of dimensions]

**Ordering Information**

- ONYX-BE102R-P01-A1-0201
  RISC Beside Terminal.RK3288.10.1”.C-TS.2GB RAM.16GB eMMC.Camera.POE.Android 6.x
- ONYX-BE102R-P01-A1-0202
  RISC Beside Terminal.RK3288.10.1”.C-TS.2GB RAM.16GB eMMC.POE.Android 6.x

**Optional Accessories**

- 1757306039
  Medical Adapter.60W.12V/5A
- OPM-T018-A1
  VoIP Handset w/o keypads
Accessory Selection
Panel PC Accessory Selection

**OPM-H02S**
Desktop Stand

**Features**
- 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 x 100mm

**Ordering Information**
- TF-OPM-H02S-A0
  Desktop Stand, Black Color, VESA 75/100, 230mm Height
- TF-OPM-H02S-A1
  Desktop Stand, Black Color, VESA 75/100, 280mm Height

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**OPM-H01S**
Desktop Stand

**Features**
- Apply to 15”~24” Medical Station, Slim Medical Panel PC, Medical Display.
- Spinning around high and mighty; able to bear 5kg to 15kg.
- Providing 2 mounting space in coordination with VESA standard: 75mm x 75mm and 100mm x 100mm
- 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.

**Ordering Information**
- TF-OPM-H01S
  Desktop Stand, Black Color, VESA 75/100, 265mm to 330mm Height
Accessory Selection
Panel PC Accessory Selection

**OPM-H08S**
Desktop Stand

**Features**
- Apply to 15” – 32” Medical Panel PC, Medical Display.
- 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 x 100mm
- 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

**Ordering Information**
- **OPM-H08S-A1**
  Desktop Stand, White Color, VESA 75/100, 310mm to 390mm Height
- **OPM-H08S-A2**
  Desktop Stand, White Color, VESA 75/100, 385mm Height

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**OPM-H12A**
VESA Mount Power Adapter Holder

**Features**
- 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

**Ordering Information**
- **OPM-H12A-A1**
  VESA mount power adapter holder

※ All product specifications are subject to change without notice
## OPM-H13A-A1
### Easi Wall Mount Swivel ARM

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

### Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature</td>
<td>Long ARM</td>
<td></td>
</tr>
<tr>
<td>Tilt</td>
<td>20° up 35° down (display)</td>
<td>20° up 60° down (arm)</td>
</tr>
<tr>
<td>Mounting Option</td>
<td>Wall Mount Type</td>
<td></td>
</tr>
<tr>
<td>VESA</td>
<td>75/100mm</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Aluminum alloy and plastic cover</td>
<td></td>
</tr>
<tr>
<td>Pivot</td>
<td>180°, 370°, 270° (wall, arm, display)</td>
<td></td>
</tr>
<tr>
<td>Extension</td>
<td>1907mm</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>1<del>6Kg (2.2</del>13.2lbs)</td>
<td>6<del>12Kg (13.2</del>26.4lbs)</td>
</tr>
</tbody>
</table>

## OPM-H15A-A1
### Easi Ceiling Mount Swivel ARM

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

### Specifications

<table>
<thead>
<tr>
<th>Main Specifications</th>
<th>OPM-H15A-A1</th>
<th>OPM-H16A-A1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature</td>
<td>Ceiling Mount</td>
<td></td>
</tr>
<tr>
<td>Tilt</td>
<td>20° up 35° down (display)</td>
<td>20° up 60° down (arm)</td>
</tr>
<tr>
<td>Mounting Option</td>
<td>Cell Mount Type</td>
<td></td>
</tr>
<tr>
<td>VESA</td>
<td>75/100mm</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Aluminum alloy and plastic cover</td>
<td></td>
</tr>
<tr>
<td>Pivot</td>
<td>270°, 370°, 270° (ceiling, arm, display)</td>
<td></td>
</tr>
<tr>
<td>Extension</td>
<td>1927mm</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>1~6Kg</td>
<td>6~12Kg</td>
</tr>
</tbody>
</table>

All product specifications are subject to change without notice.
Accessory Selection

Healthcare Infotainment Accessory Selection

**OPM-H04A**

Ergonomic Wall Mount Swivel ARM

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

**Specifications**

<table>
<thead>
<tr>
<th>MAIN SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature: Long ARM</td>
</tr>
<tr>
<td>Tilt: 20° up and 40° down</td>
</tr>
<tr>
<td>Mounting Option: Wall Mount Type</td>
</tr>
<tr>
<td>Material: Aluminum alloy and plastic cover</td>
</tr>
<tr>
<td>Arm swivel: 180°</td>
</tr>
<tr>
<td>Overall reach: 1700mm</td>
</tr>
<tr>
<td>Capacity: 1~8Kg</td>
</tr>
</tbody>
</table>

**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

**Specifications**

<table>
<thead>
<tr>
<th>MAIN SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface: USB 2.0 with RJ45 Socket</td>
</tr>
<tr>
<td>Connection Cable: 41cm Curly Cable with RJ45 Plug</td>
</tr>
<tr>
<td>On-hook Key: x1</td>
</tr>
<tr>
<td>Off-hook Key: x1</td>
</tr>
<tr>
<td>Numeric Keypad: 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, *, #</td>
</tr>
<tr>
<td>Multimedia Keypad: Home, TV, Back, Channel Up, Channel Down, Volume Up, Volume Down, OK</td>
</tr>
<tr>
<td>Hall Sensor: x1</td>
</tr>
<tr>
<td>Loudspeaker: x1</td>
</tr>
<tr>
<td>Microphone: x1</td>
</tr>
<tr>
<td>Camera: 2 Megapixels x1 (Optional)</td>
</tr>
<tr>
<td>Nurse Call Button: x1 (By Request)</td>
</tr>
<tr>
<td>Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature: -20°C ~ -60°C (-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Storage Humidity: 10% ~ 95% @ 35°C, non-condensing</td>
</tr>
<tr>
<td>Dimension: 54.6(W) x 160(H) x 34.5(D) mm</td>
</tr>
<tr>
<td>Net Weight: Approx. 105g</td>
</tr>
</tbody>
</table>

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