onyx
Smart Healthcare *an ASUS assoc. co.*

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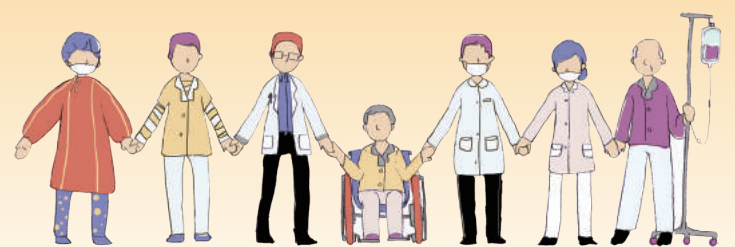
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Connectivity & mobility

- HOSPITAL WARD
- X-RAY room
- NURSING STATION
- ICU
- OPERATING ROOM
- HEALTHY
- FUNCTIONAL IMAGING

MedLINC

2019 Product Catalogue
www.onyx-healthcare.com

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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 Surgical Workstation, Operation Room Solution, Fanless Slim Panel PC, Medical Display, Healthcare Infotainment, Mobile Tablet PC, Medical PC and Remote Management Software 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 ZEUS series , Bedside Infotainment Terminal , Mobile Tablet Assistant,Medical Box PC and ORION Hospital IT Management Software.

▌ Product application focus: Hospital IT

» High-Acuity Task Area

The emergency department, Intensive care, labor and delivery units, neonatal ICUs, operating rooms, post-anesthesia care units, and the radiology department.

» Clinic/Nursing Station Area

PACs processing and daily hospital tasks.

» Outpatient Area

Patient monitoring and patient home care.

▌ Feature Products :

» Medical IT

Advanced Medical Stations, Medical Grade Slim Panel PCs, Medical Grade Fanless Panel PCs.

» Medical Platform

Mobile Nursing Cart, Bedside Infotainment Terminal.

» Medical IT & Platform Accessory

Medical Grade Monitors, Medical Mounting Accessories.

OEM/ ODM Service

Full Experience of Medical Certifications:

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

- » ISO 9001: 2008
- » ISO 13485: 2003
- » ISO 14001: 2004
- » FCC Class A and Class B
- » EMC: EN60601-1-2: 2015

- » Safety: IEC 60601-1: 2012
- » FDA Class II
- » CCC: GB 4943 1-2011 / GB 9254-2008 /   GB 17625 1-2012
- » UL: ANSI / AAMI ES 60601-1: 2015

Onyx Healthcare is the first company with EMC 4.0 / Safe 3.1 ready products

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

EMC 4.0 / Safe 3.1 Ready
EU Medical Certification Requirement

Cost Effective Global Supply Chain Choice:

With our strong SMT production line, procurement sources, assembly and after sales technical team capabilities, Onyx helps you increase competeveness and get more market share. Extreme flexible initial NRE charge let you strategically easy to move on your projects without too much investment.

- » 4 SMT production lines
- » Taiwan and China dual assembly line
- » 2 RMA facilities in USA. 2 RMA facilities in Europe.
- » 2 RMA facilities in Asia.

Mobile Cart Computer

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

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

Key Features:

- Highest level of medical safety protection, EMC4.0 / Safety3.1
- Built-in dual battery to provide Max 260W power for standing 18 hours operating.
- Support running as 24/7 by swapping batteries.

- With magnesium alloy rear cover provides high strength , light weight ,and great heat dissipation.
- ORION, Hospital IT Management software Package
- Hi-speed recharge, flexible mounting type as cart mount, wall mount, table stand

| Dual hot-swap batteries | EMC 4.0 / Safety 3.1 | 24/7 fully running | ORION | Battery charger |

Venus-243
24" 24/7 Self-Power
Cart Computer

Venus-223
22" 24/7 Self-Power
Cart Computer

✿ System

Processer	Intel® Skylake Dual-Core i5	Intel® Skylake Dual-Core i5
System Memory	DDR4 up to 32GB	DDR4 up to 32GB
OS support	Microsoft® Windows 7 (32/64bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 10 (64bit) Ubuntu 14.04 LTS IGEL (thin client solution)	Microsoft® Windows 7 (32/64bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 10 (64bit) Ubuntu 14.04 LTS IGEL (thin client solution)
Security	TPM 2.0 (Trusted Platform Module), Smart Card Reader, RFID ISO 15693/14443A (optional)	TPM 2.0 (Trusted Platform Module), Smart Card Reader, RFID ISO 15693/14443A (optional)
Wireless Communication	802.11 a/b/g/n + BT (optional)	802.11 a/b/g/n + BT (optional)

✿ Display

Size	23.8" VA panel	22" VA panel
Resolution	1920 x 1080	1920 x 1080
Brightness	250 nits	250 nits
Touch Screen	PCT	5 wire resistive touch screen,PCT(optional)
Sensor	Light Sensor	Light Sensor

✿ Battery Pack

Battery Type	9 Cell Lithium Battery	9 Cell Lithium Battery
Battery Capacity	8550 mAh / 92 Wh	8550 mAh / 92 Wh
Battery Output Voltage	10.95 V	10.95 V
Battery Charge Time	2.5 hrs for 85%, 3.5hrs for 100%	2.5 hrs for 85%, 3.5hrs for 100%
Battery Run Time	6hrs *For more details, please see the user guide	

✿ Mechanical and Environmental

Dimension	528(L) x 78(W) x 404(H) mm	542(L) x 78(W) x 362(H) mm
Net Weight	8kg (17.6lbs)	7kg (15.4lbs)
Packing Size	745(L) x 255(W) x 558(H) mm	680(L) x 270(W) x 530(H) mm
Gross Weight	11.5kg (24.3lbs)	10.5kg (23.15lbs)

Certifications	CE: EN 60601-1-2:2015(V4.0),
	    EN 60601-1:2006/ A1:2013(V3.1)
	FCC: Part 18 Class B
	UL: ANSI/AAMI ES60601-1:2012 (V3.1)
	cUL: CAN/CSA-C22.2 No. 60601-1:2014
	(V3.1)
		CE: EN 60601-1-2:2015(V4.0),
		    EN 60601-1:2006/ A1:2013(V3.1)
		FCC: Part 18 Class B
		UL: ANSI/AAMI ES60601-1:2012 (V3.1)
		cUL: CAN/CSA-C22.2 No. 60601-1:2014
		(V3.1)

The monitor Stand is option		

Venus-222
22" 24/7 Self-Power
Cart Computer

Venus-192
19" 24/7 Self-Power
Cart Computer

System

Processer	Intel® quad-core J1900 (2M Cache, up to 2.42 GHz)	Intel® quad-core J1900 (2M Cache, up to 2.42 GHz)
System Memory	DDR3L up to 8GB	DDR3L up to 8GB
OS support	Microsoft® Windows® 7 (32 bit / 64 bit) Microsoft® Windows® 8.1 (32 bit / 64 bit) Microsoft® Windows® 10 (32bit / 64 bit)	Microsoft® Windows® 7 (32bit/64bit) Microsoft® Windows® 8.1 (32bit/64bit) Microsoft® Windows® 10 (32bit / 64 bit)
Security	TPM1.2, Smart Card Reader, RFID (optional)	TPM1.2, Smart Card Reader, RFID (optional)
Wireless Communication	802.11 a/b/g/n + BT (optional)	802.11 a/b/g/n + BT (optional)

Display

Size	22" VA panel	19 inch
Resolution	1920 x 1080	1280 x 1024
Brightness	250 nits	250 nits
Touch Screen	5 wire resistive touch screen,PCT(optional)	5 wire resistive touch screen
Sensor	Light Sensor	Light Sensor

Battery Pack

Battery Type	6 Cell Lithium Battery	6 Cell Lithium Battery
Battery Capacity	5700 mAh / 61.56 Wh	5700 mAh / 61.56 Wh
Battery Output Voltage	10.8 V	10.8 V
Battery Charge Time	2 hrs for 85%, 3hrs for 100%	2 hrs for 85%, 3hrs for 100%
Battery Run Time	6hrs *For more details, please see the user guide	

Mechanical and Environmental

Dimension	542(L) x 78(W) x 362(H) mm	429(L) x 78(W) x 384(H) mm
Net Weight	7kg (15.4lbs)	5.5kg (12.13lbs)
Packing Size	680(L) x 270(W) x 530(H) mm	570(L) x 270(W) x 530(H) mm
Gross Weight	10.5kg (23.15lbs)	9kg (19.84lbs)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)
The monitor Stand is option		

Venus-193
19" 24/7 Self-Power
Cart Computer

Mobile Cart Computer Accessory Selection

UP-P22
2 -slot battery charger

System

Processer	Intel® Skylake Dual-Core i5
System Memory	DDR4 up to 32G
OS support	Microsoft® Windows 7 (32/64bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 10 (64bit) Ubuntu 14.04 LTS IGEL (thin client solution)
Security	TPM2.0,Smart Card Reader, RFID ISO 15693/14443A (optional)
Wireless Communication	802.11 ac/a/b/g/n + BT 4.0 (optional)

Display

Size	19" panel
Resolution	1280 x 1024
Brightness	250 nits
Touch Screen	5 wire resistive touch screen
Sensor	Light Sensor

Battery Pack

Battery Type	9 Cell Lithium Battery
Battery Capacity	8550 mAh / 92 Wh
Battery Output Voltage	10.95 V
Battery Charge Time	2.5 hrs for 85%, 3.5hrs for 100%
Battery Run Time	6hrs *For more details, please see the user guide

Mechanical and Environmental

Dimension	429(L) x 78(W) x 384(H) mm
Net Weight	5.5kg (12.13lbs)
Packing Size	570(L) x 270(W) x 530(H) mm
Gross Weight	9kg (19.84lbs)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)
The monitor Stand is option	

Charge Time	3hrs for standard battery; 3.5hrs for XL battery
Input Power	24V Medical adaptor
IO interface	Mini-din 4pin x1; USB Type A x1 (Power output only); USB micro-B x1(Data transport only); DC-in
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

Mechanical and Environmental

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 Temp	0°C ~ 35°C(32°F ~ 95°F)
Storage Temp	-20°C ~ 60°C(-4°F ~ 140°F)

UP-L62
6 -slot battery charger

Charge Time	2.5 hrs for 85%, 3.5 hrs for 100%
Input Power	24V adaptor
IO interface	USB TypeA x 1(Data transport only), DC-in x 1
Certification	CE, FCC

Mechanical and Environmental

Color	White
Dimension	304(L) x 154(W) x 41(H) mm
Net Weight	1.16kg (2.56 lbs
Packing Size	470(L) x 380(W) x 100(H) mm
Gross Weight	3kg (6.61 lbs
Operating Temp	0°C ~ 40°C(32°F ~ 104°F)
Storage Temp	-20°C ~ 60°C(-4°F ~ 140°F)

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

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

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

OPM-P01T
2 Battery Kit. Li-ion.
10.8V. 5700mAh

❋ Main Specification

Battery Type	3S4P / 12 Cell Li-ion battery	3S3P / 9 Cell Li-ion battery	3S2P / 6 Cell Li-ion battery
Battery Voltage	10.8V	10.95V	10.8V
Battery Capacity	12060mAh	8550mAh	5700mAh
Warranty	2 year	1 year	1 year
Charging time	4.5hrs with UPower Pro-series	3.5hrs with UPower Pro-series	3hrs with UPower Pro-series
Safety	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)
Compatible	Venus all series, UPower all series	Venus all series, UPower all series	Venus all series, UPower all series
Certification	UL-2054, IEC-62368	UL-2054, IEC-60850-1	UL-2054, IEC-60950-1

❋ Mechanical and Environmental

Architecture	ABS + PC	ABS + PC	ABS + PC
Color	White	White	White
Dimension	137(L) x 79(W) x 46 (H) mm	122(L) x 79(W) x 50 (H) mm	84(L) x 79(W) x 48 (H) mm
Net Weight	690kg (1.52 lbs)	510kg (1.12 lbs)	320g(0.71lbs)
Packing Size	234(L) x 180(W) x 76(H) mm	220(L) x 180(W) x 80(H) mm	230(L) x 150(W) x 90(H) mm
Gross Weight	1.7kg (3.75 lbs)	1.3kg (2.87 lbs)	0.9kg (1.98 lbs)
Operating Temp	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temp	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Storage Humidity	10%~95%@35°C, non-condensing	10%~95%@35°C, non-condensing	10%~95%@35°C, non-condensing

❋ Battery LED Indicator

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

*Please see the user guide for more details.

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

Venus-173
17" 24/7 Self-Power
Mobile Computer

Venus-153
15" 24/7 Self-Power
Mobile Computer

❋ System

Processer	Intel® Skylake Dual-Core i5	Intel® Skylake Dual-Core i5
System Memory	DDR4 up to 16GB	DDR4 up to 16GB
OS support	Microsoft® Windows 7 (32/64bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 10 (64bit) Ubuntu 14.04 LTS IGEL (thin client solution)	Microsoft® Windows 7 (32/64bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 10 (64bit) Ubuntu 14.04 LTS IGEL (thin client solution)
Security	TPM 2.0 (Trusted Platform Module), RFID ISO 15693/14443A (optional)	TPM 2.0 (Trusted Platform Module), RFID ISO 15693/14443A (optional)
Wireless Communication	802.11 ac/a/b/g/n + BT (optional)	802.11 ac/a/b/g/n + BT (optional)

❋ Display

Size	17"	15.6"
Resolution	1280 x 1024	1920 x 1080
Brightness	250 nits	220 nits
Touch Screen	R-TS	R-TS

❋ Battery Pack

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

❋ Mechanical and Environmental

Dimension	384(L) x 68(W) x 345(H) mm	392(L) x 43(W) x 265(H) mm
Net Weight	4.5kg	2.7kg
Packing Size	580(L) x 200(W) x 480(H) mm	520(L) x 190(W) x 400(H) mm
Gross Weight	5.6kg	4.7kg

Certifications	CE: EN 60601-1-2:2015(V4.0),
	     EN 60601-1:2006/ A1:2013(V3.1)
	FCC: Part 18 Class B
	UL: ANSI/AAMI ES60601-1:2012 (V3.1)
	cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)
		CE: EN 60601-1-2:2015(V4.0),
		     EN 60601-1:2006/ A1:2013(V3.1)
		FCC: Part 18 Class B
		UL: ANSI/AAMI ES60601-1:2012 (V3.1)
		cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

The monitor Stand is option		

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

Venus-123
12" 24/7 Self-Power
Mobile Computer

Mobile Cart Computer Accessory Selection

OPM-P05T
Battery Packs (2x)

❊ System

Processer	Intel® Skylake Dual-Core i5
System Memory	DDR4 up to 16GB
OS support	Microsoft® Windows 7 (32/64bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 10 (64bit) Ubuntu 14.04 LTS IGEL (thin client solution)
Security	TPM 2.0 (Trusted Platform Module), RFID ISO 15693/14443A (optional)
Wireless Communication	802.11 ac/a/b/g/n + BT (optional)

❊ Display

Size	11.6"
Resolution	1366 x 768
Brightness	250 nits
Touch Screen	R-TS

❊ Battery Pack

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

❊ Mechanical and Environmental

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

❊ Order information

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

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

❊ Order information

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

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

Ubiquitous Power Solution

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

Key Features:

- External DC output (2 slot only)
- Selected voltage (12V / 19V / 24V) (2 slot only)
- Non-stop, Dual hot swappable batteries architecture
- Software (ORION) remote monitor
- Capable of charging 2/6 batteries simultaneously.
- 2/6 Independent LED indicators, clearly reveal recharge status
- High-speed recharge and over charge protection

UPower

Dual 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.
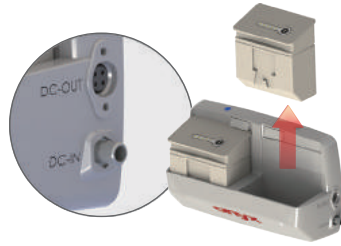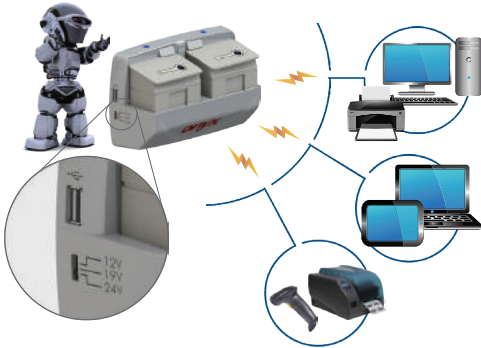
User Selected Voltage

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

ORION Management

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

Vital Sign Application

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

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

UPower Pro-22
2-slot Charger with 100W DC output

UPower Lite-62
6-slot Charger + Support ORION

❊ Main Specification

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

❊ Mechanical and Environmental

Architecture	ABS + PC	ABS + PC
Color	White	White
Dimension	191(L) x 64(W) x 117(H) mm	304(L) x 154(W) x 41(H) mm
Net Weight	0.67kg (1.47 lbs)	1.16kg (2.56 lbs)
Packing Size	390(L) x 290(W) x 110(H) mm	470(L) x 380(W) x 100(H) mm
Gross Weight	2kg (4.41 lbs)	3kg (6.61 lbs)
Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Storage Humidity	10%~95%@35°C, non-condensing	10%~95%@35°C, non-condensing

❊ Battery LED Indicator

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

❊ Power Supply Specification

Input Voltage	100-240V AC @50-60 Hz	100-240V AC @50-60 Hz
Output Power	24V / 6.25A, 150W max	24V / 10.41A, 250W max

❊ Battery Pack (optional)

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

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

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

OPM-P01T
2 Battery Kit. Li-ion.
10.8V. 5700mAh

❁ Main Specification

Battery Type	3S4P / 12 Cell Li-ion battery	3S4P / 9 Cell Li-ion battery	3S4P / 6 Cell Li-ion battery
Battery Voltage	10.8V	10.95V	10.8V
Battery Capacity	12060mAh	8550mAh	5700mAh
Warranty	2 year	1 year	1 year
Charging time	4.5hrs with UPower Pro-series	3.5hrs with UPower Pro-series	3hrs with UPower Pro-series
Safety	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)	Supports protection from over-voltage (input and output), over-current (input and output), short circuit, over-charge, over-discharge, and battery Positive Temperature Coefficient(PTC)
Compatible	Venus all series, UPower all series	Venus all series, UPower all series	Venus all series, UPower all series
Certification	UL, CE, IEC-60950-1, IEC-62133-1	UL, CE, IEC-60950-1, IEC-62133-1	UL, CE, IEC-60950-1, IEC-62133-1

❁ Mechanical and Environmental

Architecture	ABS + PC	ABS + PC	ABS + PC
Color	White	White	White
Dimension	137(L) x 79(W) x 48 (H) mm	122(L) x 79(W) x 50 (H) mm	84(L) x 79(W) x 48 (H) mm
Net Weight	690kg (1.52 lbs)	510kg (1.12 lbs)	320g(0.71lbs)
Packing Size	234(L) x 180(W) x 76(H) mm	220(L) x 180(W) x 80(H) mm	230(L) x 150(W) x 90(H) mm
Gross Weight	1.7kg (3.75 lbs)	1.3kg (2.87 lbs)	0.9kg (1.98 lbs)
Operating Temp	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temp	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Storage Humidity	10%~95%@35°C, non-condensing	10%~95%@35°C, non-condensing	10%~95%@35°C, non-condensing

❁ Battery LED Indicator

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

*Please see the user guide for more details.

ORION

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

Key Features:

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

Remote Backup / Recovery

IT Managers can remotely perform critical operating system backup / recovery operations without having to be at any device's physical location.

Remote Update / Installation

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

E-mail Reporting

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

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.

ORION

ORION is a complete software solution that controls every part of your Onyx device infrastructure from the server, to the software manager and client devices.This system works the same way as the email servers we use every day to communicate. Each ORION system has a single server that connects to nursing carts (clients) that push their information to the server (similar to sending anemail). The software manager collects information on the server received from the nursing carts to perform further analysis like battery cycle count or capacity attenuation.

Real-time Remote Monitoring

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

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.

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.

Automated Task Scheduling

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

Group Settings

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

Successful Story – NHS in UK

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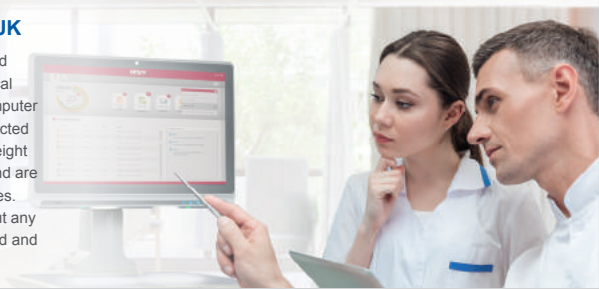
ORION Remote
Hospital IT ManagementSoftware Package

CORE FUNCTION

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

Ordering Information

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

Hardware Requirement

▸ **ORION Server**

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

▸ **ORION Manager**

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

Mobile Medical Assistant

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

Key Features:

- Effortless data collection and documentation with significant error reduction
- Seamless integration of medical devices

- Medical & ambulance dual certifications
- Continuous power for 24/7 non-stop operation
- Rugged design for outdoor and indoor use
- Reduce hospital and ambulance service TOC

Light weight & compact size

OS support for Windows

Julia-J05
5" PDA (mPDA)

Julia-J07
7" PDA (mPDA)

MPAD-800
8" Medical Tablet

❋ Application

On Demand Accessing Medical Data , Clinical Decision Making , Patient Monitoring

❋ Main Specification

Processor	ARM® Cortex™-A53 Octa-core 1.3 GHz	ARM® Cortex™-A53 Octa-core 1.3 GHz	ARM® Cortex™-Octa-core up to 1.6 GHz
System Memory	2GB RAM	2GB RAM	2GB SDRAM
Storage	16GB eMMC Additional storage available: SD (up to 2 GB), SDHC (up to 32 GB)	16GB eMMC Additional storage available: SD (up to 2 GB), SDHC (up to 32 GB)	16GB eMMC
Operating system	Android 5.1	Android 5.1	Android 6.0.1

❋ Display

Size	5-inch	7-inch	8-inch
Resolution	1280 x 720	1280 x 720	1280 x 800
Touch	Multi-touch projected capacitive	Multi-touch projected capacitive	Multi-touch projected capacitive

❋ Wireless Communication

WLAN	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/c
Bluetooth	Bluetooth 4.1	Bluetooth 4.0	Bluetooth 4.0
GPS	GPS / AGPS / GLONASS	GPS / AGPS / GLONASS	N/A

❋ Interface

Docking Connector	1 x Docking connector	1 x Docking connector	1x Type-A USB ,1x Type-C USB
USB	1 x Micro USB	1 x Micro USB	1 x Micro USB
Power input	1 x Power Jack	1 x Power Jack	1 x Power Jack
Micro SD	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
SIM Card Slot	2 x SIM Card Slot	2 x SIM Card Slot	1 x SIM Card Slot

❋ Input

Button	1 x Volume +/- , 1 x Power Button, 2 x Function Button	1 x Volume +/- , 1 x Power Button,1 x Home Button, 1 x Menu Button,1 x Return Button, 1 x Trigger Button	1 x Volume +/- , 1 x Power Button
LED Indicators	1 x LED indicator	2 x LED indicators (Power, Battery)	1 x LED indicator (Power, Battery)

❋ Mechanical and Environment

Dimension (W x L x H)	85.9 x 163.2 x 22.5 mm	212.4 x 132.8 x 19 mm	136.6 x 219 x 21 mm
Weight	0.315 Kg	0.55 Kg	0.67 Kg (1.48lb)

❋ Power Management

Battery Operating Time	20Hrs	20Hrs	8Hrs
Adapter	5V 2A Adapter	5V 3A Adapter	12V / 3A Adapter

MD101
10.1" Portable
Medical Gateway

MD116/ MD116I
12" Rugged EMS Tablet

Application

EMS, Vital Sign Automation, Mobile Point of Care

Main Specification

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

Display

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

I/O

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

Mechanical and Environment

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

Mobile Medical Assistant Accessory Selection- MD116/MD116I Accessory

Vehicle Dock	VESA Cradle	Office Dock	Battery Charger
OPM-T016-A2	OPM-T021-A1	OPM-T022-A1	UP-M62-A1-10101

Optional Accessories

Part Number	OPM-T016-A2	OPM-T021-A1	OPM-T022-A1	UP-M62-A1-1010
Description	Vehicle Dock	VESA Cradle	Office Dock	Battery Charger
Input Power	12V	N/A	12V	24V
Installations	VESA 75	VESA 75	Stationary	Stationary

I/O

IO	1x USB 2.0 Type-A 1x USB 3.0 Type-A 1x RJ45 1x Line Out 1x Phoenix Port 1x DC In Jack	N/A	2x USB 2.0 Type-A 1x RJ45 1x RS-232 1x DC-In	1x Micro USB (Client) 1x DC-In
LED Indicator	N/A	N/A	Steady Green: Connection LED Off: Disconnection	Flickering Blue: Battery Charging Steady Blue: Battery Fully Charged Flickering Purple Green: Error

Mechanical and Environment

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

Surgical and Server Level Workstation Solution

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

Key Features:

- Smart View Design with Worldwide Patents
- 24/22/19 inch Medical Grade MVA panel
- Multi-touch PCT screen / 5-wire Resistive Touch Screen

- Flat and edgeless ID design gives doctors the best-in-market user interaction experience
- Patented smart multi function keys covers up to 10 features for reading light, speaker volume, LCD brightness, etc.

Intel® 6th Gen. i7 Platform for Critical Applications

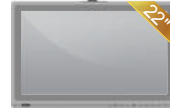Super 3.0 for USB, SATA and PCI-e

DICOM Compliance Display

MIS with Remote Control Power

Triple Isolation Protection to

Backup Battery for Uninterruptible Power Supply
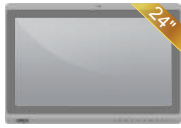
ZEUS-248
24" Fanless Smart View 6th Gen.
Core i7 Medical Station

ZEUS-228
22" Fanless Smart View 6th
Gen. Core i7 Medical Station

Application

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

Main Specifications

Processor	Intel 6th Generation Core i7-6600U 3.4GHz Dual Core
System Memory	DDR4 SODIMM up to 32GB
Chipset	N/A
OS Support	Windows® 7, Windows® 8.1, Windows® 10, Linux®
Remote Management	Intel Active Management Technology
Expansion Interface	PCI Express[x4] x1, PCI Express[x1] or PCIx1(optional)
Storage Disk Drive	2.5" SATA HDD/SSD x1, M.2 SSD x1, Slim DVD-RW Drive x1(optional)
Security	Trusted Platform Module, Smart Card Reader(optional), RFID Reader(optional)
Wireless Communication	802.11a/b/g/n/ac(optional), Bluetooth 4.0{optional)
Speaker	5W x 2
Power Requirement	DC 12~24V, 25wh Backup Battery (optional)

Display

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

I/O

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

Mechanical and Environmental

Power Consumption	Full loading:50 watts	Full loading:47 watts
Operating Temperature	0˚C to 40˚C (32˚F~104˚F)	
Net Weight	9.2Kg(20.3 lb)	8.0Kg(17.6lb)

ZEUS-198
19" Fanless Smart View 6th
Gen. Core i7 Medical Station

✽ Application

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

✽ Main Specifications

Processor	Intel 6th Generation Core i7-6600U 3.4GHz Dual Core
System Memory	DDR4 SODIMM up to 32GB
Chipset	N/A
OS Support	Windows® 7, Windows® 8.1, Windows® 10, Linux®
Remote Management	Intel Active Management Technology
Expansion Interface	PCI Express[x4] x1, PCI Express[x1] or PCIx1(optional)
Storage Disk Drive	2.5" SATA HDD/SSD x1, M.2 SSD x1, Slim DVD-RW Drive x1(optional)
Security	Trusted Platform Module, Smart Card Reader(optional), RFID Reader(optional)
Wireless Communication	802.11a/b/g/n/ac(optional), Bluetooth 4.0(optional)
Speaker	5W x 2
Power Requirement	DC 12~24V , 25wh Backup Battery (optional)

✽ Display

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

✽ I/O

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

✽ Mechanical and Environmental

Power Consumption	Full loading:42 watts
Operating Temperature	0˚C to 40˚C (32˚F~104˚F)
Net Weight	7.0Kg(20.3 lb)

Operating Room Solution

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

Key Features:

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

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

Intel® Quad Core Xeon Platform

PCI Express [x16] Slot for High End Graphics

Enhance functional for Medical Imaging

IP66 Certified, Antimicrobial Surface Coatin and Fanless

ACCEL-A3201
32" 4K UHD Smart View 6th Generation Xeon / Core i7 Multi-Touch Medical Station

ACCEL-A3202
32" 4K UHD Smart View AMD Ryzen Embedded V1000 Multi-Touch Medical Station

❋ Application

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

❋ Main Specifications

Processor	Intel® 6th Generation Xeon E3-1505M v5 2.8GHz Quad Core / Core i7-6820QE 2.8GHz Quad Core	AMD Ryzen Embedded V1000 Quad Core
System Memory	ECC (for Xeon) / Non-ECC (for Core i7) DDR4 SODIMM up to 32GB	ECC / Non-ECC DDR4 SODIMM up to 32GB
Chipset	CM236 (for Xeon) / QM170(for Core i7)	N/A
OS Support	Windows® 7, Windows® 8.1, Windows® 10, Linux®	Windows® 10, Linux®
Expansion Interface	PCI Express[x16] x1, PCI Express[x4] x1, PCI Express[x1] x1)	PCI Express[x4] x1
Storage Disk Drive	2.5" SATA Hard Disk Drive/Solid State Disk Drive x 2	2.5" SATA Hard Disk Drive/Solid State Disk Drive x1
Security	Trusted Platform Module 2.0	FTPM2.0
Wireless Communication	802.11ac/a/b/g/n, Bluetooth V4.1 / 4.2	802.11ac/a/b/g/n, Bluetooth V4.1 / 4.2
Speaker	5W x 2	5W x 2

❋ Display

Size/ Type	32" LCD	32" LCD
Max. Resolution	3840 x 2160	3840 x 2160
Luminance (cd/m2) (TYP)	350 nits / 700 nits	350 nits
Viewing Angle	178(H)/178(V)	178(H)/178(V)
Contrast Ratio	1000:1 / 1350:1	1000:1
Touch Screen	Capacitive Multi-Touch	Capacitive Multi-Touch

❋ I/O

USB	USB 3.0 x4	USB 3.1 ,Type-A x2, USB 3.1 Type -C x1 , USB 2.0 x 2
Serial Ports	Isolated RS-232 x2(optional)	Isolated RS-232 x2(optional)
Ethernet	Isolated Gigabit LAN x2	Gigabit LAN x2
Video Out	Display Port 1.4 x1(optional)	Display Port 1.2 x1, HDMI 2.0 x1
Audio	Mic(optional), Line out(optional)	Mic, Line out

❋ Mechanical and Environmental

Power Consumption	Full loading : 90 Watts for 350 nits LCD Full loading : 165 Watts for 700 nits LCD	Full loading : 80 Watts
Operating Temperature	0˚C to 35˚C (32˚F~95˚F)	
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	
Net Weight	18.5kg	14.5kg

ACCEL-M3201
32" 4K-UHD Medical
LCD Monitor

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

✿ Display

Size	32"
Resolution	3840 x 2160 (UHD 4K)
Aspect Ratio	16:9, Full, 16:10, 4:3, 5:4, 1:1
Brightness (Typ.)	350nits
Viewing Angle (CR=10)(Typ.)	178˚(H)/178˚(V)
Contrast Ratio (Typ.)	1000:1
Touch Screen	Projective capacitive touch screen (optional)

✿ System

OS Support	Windows® XP, Windows® 7, Windows® 10
Image Support	DICOM,Gamma correction , 3DLUT , 1DLUT
Product Features	Ambient light sensor,IR Control

✿ I/O

Input Signal	3G SDI x 1 , VGA x 1 , HDMI 2.0 x1 , Dual DVI in x1 , DP 1.2 x1 ,HDMI 1.4 x1 , Audio In x1
Output Signal	DP (Multi-Stream Transport) x 1 ,Audio Out x 1, 5V out x 1,SDI (Loop Through), support to 1080P* x 1

✿ Mechanical and Environmental

Power Consumption	24V DC in 150W, with external 110-240V AC to DC Adapte
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
Housing	Antimicrobial Surface Coating
IP Rating	Protection: front IP65 - rear IP22
Net Weight	11 kg (24.2lbs)
Dimension	777.58 x 477.62 x 48 mm

Certifications	CE: IEC 60601-1:2005 + A1:2015 (Ed. 4.0)
	    IEC 60601-1-6:2010 + A1:2013 (Ed. 3.1)
	UL : ANSI/AAMI ES60601-1:2005/ A1:2012 and
	    C1:2009/(R)2012 and A2:2010/(R)2012
	cUL: CAN/CSA-C22.2 No.60601-1:14
	FCC part 15B
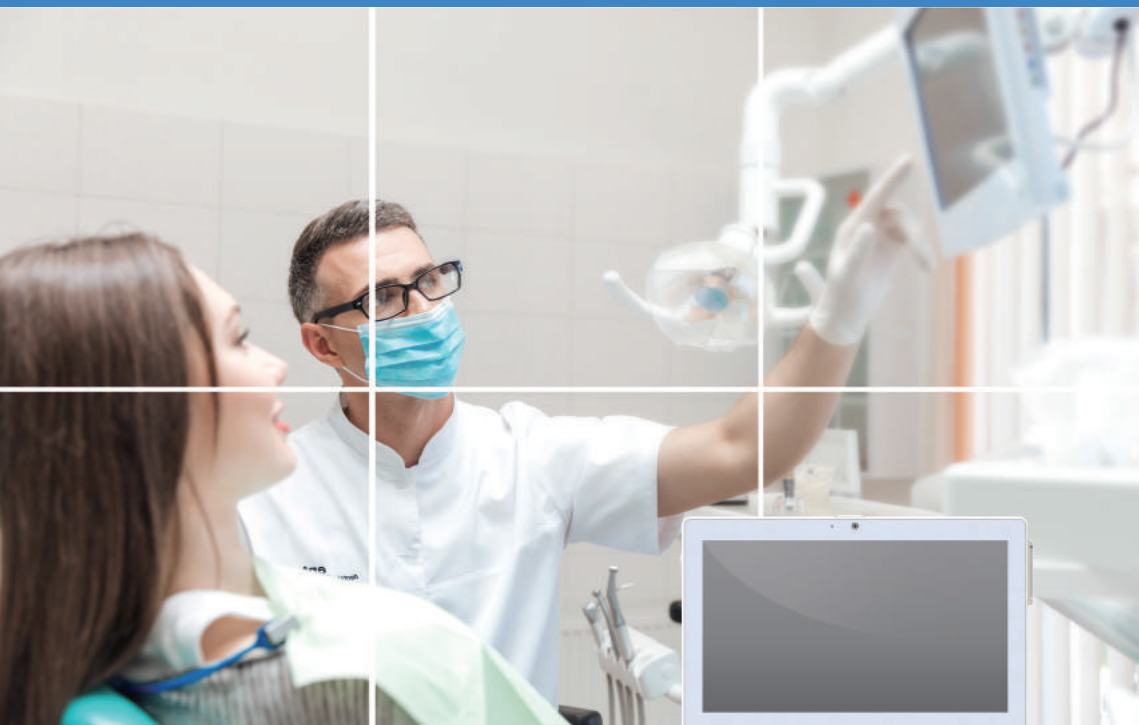
Slim Fanless Medical Panel PC

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

Key Features:

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

Small to Large LCD Choices

Quiet, Clean & Easy Maintenance

Green & Compact Size for Operation

Wide Range Power Input for Different Carts

Dual Antennas with Best WLAN performance

ONYX-BE182
18.5" Fanless Celeron J1900
Quad Core Slim Medical Panel PC

ONYX-1731
17" Fanless Celeron J1900
Quad Core Slim Medical Panel PC

✿ Application

Telemedicine, Medical IT, Medical Device Controller

✿ Main Specifications

Processor	Intel® Celeron J1900 Quad Core 2.42GHz	Intel® Celeron J1900 Quad Core 2.42GHz
System Memory	Supports DDR3 SODIMM up to 8GB	Supports DDR3L SODIMM up to 8GB
Chipset	N/A	N/A
Expansion Interface	Mini Card x2	Mini Card x 1
Storage Disk Drive	2.5" SATA Hard Disk Drive/SSD x 1	mSATA SSD x 1, Slim DVD-RW Drive x 1(optional)
OS Support	Windows® 7, Windows® 8.1, Windows® 10, Linux	Windows® 7, Windows® 8.1, Windows® 10, Linux®
Security	Trusted Platform Module, Smart Card Reader (optional), MSR (optional), RFID (optional)	Trusted Platform Module, Smart Card Reader (optional), RFID Reader(optional)
Wireless Communication	802.11b/g/n(optional), Bluetooth 4.0 (optional)	802.11a/b/g/n/ac(optional), Bluetooth 4.0 (optional)
Speaker	3W x 2	3W x 2
Power Requirement	DC 12~24V	DC 12~24V

✿ Display

Size/ Type	18.5" (16:9) TFT LCD	17" LCD
Max. Resolution	1366 x 768	1280 x 1024
Luminance (cd/m2) (TYP)	300 nits	350 nits
Viewing Angle	170˚(H)/160˚(V)	170˚(H)/160˚(V)
Contrast Ratio	1000:1	1000:1
Touch Screen	Projected Capacitive Touch / 5-Wire Resistive Touch	5-wire Resistive

✿ I/O

USB	USB 2.0 x4	USB2.0 x 4
Serial Ports	N/A	Isolated RS-232 x 1
Ethernet	Gigabit LAN x2	Isolated Gigabit LAN x 2
Video Out	N/A	VGA x 1
Audio	Line out, Mic	Line-out, Mic-in

✿ Mechanical and Environmental

Power Consumption	Full loading: 60 Watts	Full loading: 21 Watts
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~60°C(-4°F ~ 140°F)	-20°C ~60°C(-4°F ~ 140°F)
Mounting	VESA 75/100 mm	VESA 75/100 mm
Net Weight	4.2 kg(9.26lb)	5.6kg(12.32lb)
Certifications	CE/ FCC Class B, UL60601-1, EN60601-1	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ONYX-1531
15.6" Fanless Celeron J1900 Quad Core Slim Medical Panel PC

ONYX-1222
11.6" Fanless Celeron J1900 Quad Core Slim Medical Panel PC

ONYX-1022
10.1" Fanless Celeron J1900 Quad Core Slim Medical Panel PC

❋ Application

Telemedicine, Medical IT, Medical Device Controller

❋ Main Specifications

Processor	Intel® Celeron J1900 Quad Core 2.42GHz		
System Memory	Supports DDR3L SODIMM up to 8GB		
Chipset	N/A		
Expansion Interface	Mini Card x 1		
Storage Disk Drive	2.5" SATA SSD x 1 / mSATA SSD x 1		mSATA SSD x 1
OS Support	Windows® 7, Windows® 8.1, Windows® 10, Linux®		
Security	Trusted Platform Module, Smart Card Reader (optional), RFID Reader (optional)		
Wireless Communication	802.11a/b/g/n/ac(optional), Bluetooth 4.0 (optional)		
Speaker	3W x 2	2W x 2	2W x 2
Power Requirement	DC 12~24V		DC 12V

❋ Display

Size/ Type	15.6" LCD	11.6" LCD	10.1" LCD
Max. Resolution	1920 x 1080	1366 x 768	1280 x 800
Luminance (cd/m2) (TYP)	300 nits	220 nits	300 nits
Viewing Angle	160˚(H)/140˚(V)	170˚(H)/170˚(V)	170˚(H)/170˚(V)
Contrast Ratio	700:1	800:1	1300:1
Touch Screen	5-Wire Resistive / Capacitive Multi-Touch	5-Wire Resistive / Capacitive Multi-Touch	5-Wire Resistive / Capacitive Multi-Touch

❋ I/O

USB	USB2.0 x 4	USB3.0 x 1 , USB2.0 x 4	USB 3.0 x 1, USB 2.0 x 3
Serial Ports	Isolated RS-232 x 1	Isolated RS-232 x 1	RS-232 x 1
Ethernet	Isolated Gigabit LAN x 2	Isolated Gigabit LAN x 2	Gigabit LAN x 2
Video Out	N/A	N/A	HDMI x 1 (optional)
Audio	Mic, Line-out	Mic, Line-out	N/A

❋ Mechanical and Environmental

Power Consumption	Full loading: 19 Watts	Full loading:22 Watts	Full loading:20 Watts
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~60°C(-4°F ~ 140°F)	-20°C ~60°C(-4°F ~ 140°F)	-20°C ~60°C(-4°F ~ 140°F)
Mounting	VESA 75/100 mm	VESA 75/100 mm	VESA 75/100 mm
Net Weight	2.8kg(6.2lb)	1.5kg (3.3lb)	1.2kg (2.6lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B / UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)		

Patient Monitoring Accessory Selection

OPM-H02S
Desktop Stand

OPM-H01S
Desktop Stand

Silver

OPM-H10A
Gas Spring Arm

• Apply to 10"~22" Slim Medical Panel PC, Medical Display	• Apply to 15" ~ 24" Medical Station, Slim Medical Panel PC, Medical Display	• Clamp type can fit all kind of mobile car.
• Spinning around high and mighty; able to bear 5kg to 12kg.	• Spinning around high and mighty; able to bear 5 kg to 15kg.	• Weight capacity : 2~8KG (4.4~17.6lb)
• Providing 2 mounting space in coordination with VESA standard: 75mm x 75mm and 100mm x100mm	• Providing 2 mounting space in coordination with VESA standard:75mm x 75mm and 100mm x100mm	• Clockwise / counterclockwise rotation
•	• The angle of view was designed adjustable for clear vision	
	• Flexible angle create brand-new atmosphere of monitors.	
	• Up-to-date choice in the multimedia era.	
	• Show yourself and break the limit of environment.	
	• Regulate as you want to make more space.	
	•	

OPM-H12A
VESA Mount Power Adapter Holder

• Design for 1255301202 & 1255301204 with 120W

• Apply to 15" to 24" Medical Station, Slim Medical Panel PC

• Providing 2 mounting spaces in coordination with VESA standard: 75mm x 75mm and 100mm x 100mm

Medical AIO Solution

Medical AIO is a highly cost effective solution. Intel Core i7 processor, up to 32GB DDR4 and capacitive multi-touch screen enhance the efficiency of hospital applications. Fanless design keeps environment quiet and reduces the effort in cleaning. With one PCI Express[x1] slot, any standard PCI Express[x1] card such as isolated RS-232 card and video capture card can be installed to enhance capability.

Key Features:

- 19"/22"/24"LCD with resistive touch or capacitive multi-touch
- Trusted Platform Module and Smart Card Reader for Security Enhancement
- One PC1 Express[x1] Slot
- Fanless Design for Quiet and Easy Maintenance
- Reading Light
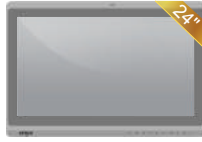
MATE-2403
24" Fanless Core i7 Medical AIO

MATE-2203
22" Fanless Core i7 Medical AIO

❀ System

Processer	Intel® 6th Generation Core i7 / i5 / i3 Processor	Intel® 6th Generation Core i7 / i5 / i3 Processor
System Memory	Supports Dual Channel DDR4 2133 SODIMM up to 32GB	Supports Dual Channel DDR4 2133 SODIMM up to 32GB
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux®	Windows® 7, Windows® 8.1, Windows® 10, Linux®
Expansion Interface	PCI Express[x1] (optional)	
Security	Trusted Platform Module RFID Reader (optional) Smart Card Reader x 1 (optional)	Trusted Platform Module RFID Reader (optional) Smart Card Reader x 1 (optional)
Wireless Communication	802.11 ac/a/b/g/n(optional), Bluetooth 3.0HS & 4.0 (optional)	802.11 ac/a/b/g/n(optional), Bluetooth 3.0HS & 4.0 (optional)

❀ Display

Size	24" MVA LCD	22" MVA LCD
Resolution	1920 x 1080	1920 x 1080
Brightness	250 nits	250 nits
Touch Screen	5-Wire Resistive / Capacitive Multi-Touch	5-Wire Resistive / Capacitive Multi-Touch

❀ I/O

USB	USB 3.0 x 4, USB 2.0 x 2	USB 3.0 x 4, USB 2.0 x 2
Serial Port	RS-232 x 2	RS-232 x 2
Ethernet	1.5KV Isolated Gigabit LAN x 2	1.5KV Isolated Gigabit LAN x 2
Video Out	Display Port x1, HDMI x1 (Supports resolution up to 3840 x 2160)	Display Port x1, HDMI x1 (Supports resolution up to 3840 x 2160)
Audio	Mic-in, Line-out	Mic-in, Line-out

❀ Mechanical and Environmental

Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Mounting VESA	75/100 mm	75/100 mm
Degree of Protection	IP65 in the front ; IP54 in the back	IP65 in the front ; IP54 in the back
Net Weight	9.7kg (21.4lb)	8.5kg (18.7lb)

Certification	CE: EN 60601-1-2:2015(V4.0),
	    EN 60601-1:2006/A1:2013(V3.1)
	FCC: Part 18 Class B
	UL: ANSI/AAMI ES60601-1:2012 (V3.1)
	cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)
		CE: EN 60601-1-2:2015(V4.0),
		    EN 60601-1:2006/A1:2013(V3.1)
		FCC: Part 18 Class B
		UL: ANSI/AAMI ES60601-1:2012 (V3.1)
		cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

MATE-1903
19" Fanless Core i7 Medical AIO

✿ System

Processer	Intel® 6th Generation Core i7 / i5 / i3 Processor
System Memory	Supports Dual Channel DDR4 2133 SODIMM up to 32GB
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux®
Expansion Interface	PCI Express[x1] (optional)
Security	Trusted Platform Module RFID Reader (optional) Smart Card Reader x 1 (optional)
Wireless Communication	802.11 ac/a/b/g/n(optional), Bluetooth 3.0HS & 4.0 (optional)

✿ Display

Size	19" TN LCD
Resolution	1280 x 1024
Brightness	250 nits
Touch Screen	5-Wire Resistive / Capactive Multi-Touch Screen

✿ I/O

USB	USB 3.0 x 4, USB 2.0 x 2
Serial Port	RS-232 x 2
Ethernet	1.5KV Isolated Gigabit LAN x 2
Video Out	Display Port x1, HDMI x1 (Supports resolution up to 3840 x 2160)
Audio	Mic-in, Line-out

✿ Mechanical and Environmental

Operating Temperature	0°C ~ 35°C(32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Mounting VESA	75/100 mm
Degree of Protection	IP65 in the front ; IP54 in the back
Net Weight	7.5kg (16.5lb)
Certification	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

Healthcare Infotainment

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

Key Features:

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

ONYX-BE381
18.5" Bedside Infotainment Touch Monitor

✿ Application

Ward - Bedside Infotainment, Nursing Station / Cart

✿ Main Specification

Size	18.5" (16:9) color TFT LCD
Resolution	1366 x 768
Max. Color	16.7M
Luminance	300 nits
View Angle	170(H)/160(U)
Contrast Ratio	1000:1
MTBF	30,000 hours
Touch Screen	Projected Capacitive Touch / Resistive
Camera	2 Megapixles

✿ I/O

Front USB	External USB 2.0 on bottom I/O x 2
Rear USB	Rear USB 2.0 for connecting host computer x 2
Video in	HDMI x 1/ VGA x 1
Front Audio	Speaker Out x 1 And Microphone-in x1
Rear Audio	Audio-in x 1 and Microphone-in x 1
Speaker	2 x 3W high quality speakers
Extension	1D/2D Barcode Scanner, VOIP Phone w/ wire remote control, MSR, RFID, Smart Card Reader

✿ Mechanical and Environmental

Infection Control	Anti-Bacterial (optional)
Power Requirement	DC 12V-24V
Operating Temperature	0°C~40°C (32°F~104°F)
Storage Temperature	-20°C~60°C (-4°F~140°F)
Mounting	VESA 75/100mm
Degree of protection	Front panel: IP65; Whole unit: IP x 1
Net Weight	3.2kg(7.05lb)
Certifications	CE/FCC Class B UL60601-1, EN60601-1

ONYX-BE182
18.5" Fanless Bedside Infotainment Touch Terminal

✿ Application

Ward - Bedside Infotainment, Nursing Station / Cart

✿ Main Specification

Processor	Intel® Celeron J1900 Quad Core 2.42GHz
System Memory	Supports DDR3 SODIMM up to 8GB
OS Support	Windows® 7, Windows® 8.1, Windows® 10, Linux
Expansion	Mini Card x 2
Storage Disk Drive	2.5" SATA Hard Disk Drive x 1 / SSD x 1
Security	Trusted Platform Module, Smart Card Reader (optional), MSR (optional), RFID (optional)
Wireless Communication	802.11b/g/n(optional), Bluetooth 4.0 (optional)
Speaker	1W x 2
Camera	2 Megapixles
Power Requirement	DC 12~24V

✿ Display

Size	18.5" (16:9) Color TFT LCD
Resolution	1366 x 768
Touch Screen	Projected Capacitive Touch / 5-Wire Resistive Touch

✿ I/O

USB	USB 2.0 x 4
Serial Port	Isolated RS-232 x 1
Ethernet	Isolated Gigabit LAN x 2
Speaker	3W x 2
Audio	1 x Line out / MIC in/ Internal MIC

✿ Mechanical and Environment

Infection Control	Anti-Bacteria (optional)
Power Requirement	DC 12V ~24V
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Degree of protection	Front Panel: IP65; Whole Unit: IPX1
Mounting	VESA 75/100 mm
Net Weight	4.2 kg(9.26b)
Certifications	CE/ FCC Class B, UL60601-1, EN60601-1

ONYX-1531
15.6" Fanless Bedside Infotainment Touch Terminal

ONYX-1222
11.6" Fanless Bedside Infotainment Touch Terminal

✿ Application

Ward - Bedside Infotainment, Nursing Station / Cart

✿ Main Specification

Processor	Intel® Celeron J1900 Quad Core 2.42GHz	Intel® Celeron J1900 Quad Core 2.42GHz
System Memory	Supports DDR3L SODIMM up to 8GB	Supports DDR3L SODIMM up to 8GB
OS Support	Windows® 7, Windows® 8.1, Windows® 10, Linux	Windows® 7, Windows® 8.1, Windows® 10, Linux
Expansion	Mini Card x 1	Mini Card x 1
Storage Disk Drive	2.5" SATA SSD x 1 / mSATA SSD x 1	2.5" SATA SSD x 1 / mSATA SSD x 1
Security	Trusted Platform Module, Smart Card Reader x 1 (optional), RFID(optional)	Trusted Platform Module, Smart Card Reader x 1 (optional), RFID(optional)
Wireless Communication	802.11a/b/g/n/ac(optional), Bluetooth 4.0 (optional)	802.11a/b/g/n/ac(optional), Bluetooth 4.0 (optional)
Speaker	3W x 2	2W x 2
Power Requirement	DC 12~24V	DC 12~24V

✿ Display

Size	15.6" LCD	11.6" LCD
Resolution	1920 x 1080	1366 x 768
Touch Screen	5-Wire Resistive / Capacitive Multi-Touch	5-Wire Resistive / Capacitive Multi-Touch

✿ I/O

USB	USB 2.0 x 4	USB3.0 x 1 , USB2.0 x 4
Serial Port	Isolated RS-232 x 1	Isolated RS-232 x 1
Ethernet	Isolated Gigabit LAN x 2	Isolated Gigabit LAN x 2
Speaker	N/A	N/A
Audio	Mic, Line-out	Mic, Line-out

✿ Mechanical and Environment

Infection Control	N/A	N/A
Power Requirement	Full loading: 19 Watts	Full loading:22 Watts
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Degree of protection	N/A	N/A
Mounting	VESA 75/100 mm	VESA 75/100 mm
Net Weight	4.0kg(8.8lb)	1.5kg (3.3lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	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)

ONYX-BE153R
15.6" Fanless Android Bedside Infotainment Touch Terminal

ONYX-BE122R
11.6" Fanless Android Bedside Infotainment Touch Terminal

Application
Ward - Bedside Infotainment, Nursing Station / Cart

Main Specification

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

Display

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

I/O

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

Mechanical and Environment

Infection Control	Anti-Bacteria (Optional)	Anti-Bacteria (Optional)
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	-20°C ~ 60°C(-4°F ~ 140°F)
Degree of protection	Front Panel: IP65, Whole Unit: IP54	Front Panel: IP65, Whole Unit: IP54
Mounting	VESA 75/100 mm	VESA 75/100 mm
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

ONYX-BE102R
10.1" Fanless Android Bedside Infotainment Touch Terminal

❋ Application

Ward - Bedside Infotainment, Nursing Station / Cart

❋ Main Specification

Processor	Rockchip RK3288 ARM Cortex A17 QC 1.6GHz
System Memory	DDR3L 2GB
OS Support	Android 6.0
Expansion	Mini PCIe Slot x 1
Storage Disk Drive	16GB eMMC
Security	13.56MHz RFID Reader (optional)
Wireless Communication	802.11 ac + BT 4.1
Speaker	2W x2
Camera	5 Megapixels
Power Requirement	DC 12V / POE

❋ Display

Size	10.1" (16:9) Color TFT LCD
Resolution	1280 x 800
Luminance	400nits
Touch Screen	Projected Capacitive Touch

❋ I/O

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

❋ Mechanical and Environment

Infection Control	Anti-Bacteria (Optional)
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Degree of protection	Front Panel: IP65, Whole Unit: IP54
Mounting	VESA 75/100 mm
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)

Healthcare Infotainment Accessory Selection

OPM-H13A/H14A
Easi Wall Mount Swivel ARM

OPM-H15A/H16A
Easi Ceiling Mount Swivel ARM

❋ Features

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

❋ Features

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

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

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OPM-H04A
Ergonomic Wall Mount Swivel ARM

OPM-T018
Smart VOIP Handset

❋ Features

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

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

❋ Features

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

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

Medical Display

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

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

Key Features:

- Versatile LCD size
- High Speed Graphic Performance
- Photo Sensor achieved Stable and Consistent Image
- CE/ FCC, Class B Passed 18, EN60601-1:2006
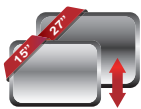
Small to Large LCD Display Choices

Fabulous Touch experience

Green and Low power consumption

Long term product life time support

Flexibility for customization request to medical equipment

MEDDP-627
27" LED LCD Monitor

MEDDP-624
24" LED LCD Monito

MEDDP-622
21.5" LED LCD Monitor

❋ Application

❋ Main Specification

Size	27"	23.8"	21.5"
Resolution	Full HD 1920 x 1080	Full HD 1920 x 1080	Full HD 1920 x 1080
Max. Colors	16.7M	16.7M	16.7M
White Luminance (Typ.)	300 nits	400 nits	350 nits
Viewing Angle (CR=10)(Typ.)	178˚(H)/178˚(V)	178˚(H)/178˚(V)	178˚(H)/178˚(V)
Contrast Ratio (Typ.)	3000:1	1000:1	1000:1
Touch Screen	Projective capacitive touch screen (optional)		

❋ System

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

❋ IO

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

❋ Mechanical and Environment

Power Requirement	DC12V / 5A power input	DC12V / 5A power input	DC12V / 5A power input
Operating Temperature	5°C ~ 40°C(41°F ~ 104°F)	5°C ~ 40°C(41°F ~ 104°F)	5°C ~ 40°C(41°F ~ 104°F)
Storage Temperature	-10°C ~ 60°C(14°F ~ 140°F)	-10°C ~ 60°C(14°F ~ 140°F)	-10°C ~ 60°C(14°F ~ 140°F)
Storage Humidity	10%~90%@35°C, non-condensing	10%~90%@35°C, non-condensing	10%~90%@35°C, non-condensing
Gross Weight	10.4kg (22.93lb)	8.6 kg (19lb)	7.0kg (15.43lb)
Net Weight	6.6 kg (14.11lb)	6.4kg (14.11lb)	5.7kg (12.57lb)
Certifications	CE: EN 60601-1-2:2015(V4.0) , EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B,	CE: EN 60601-1-2:2015(V4.0) , EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B,	CE: EN 60601-1-2:2015(V4.0) , EN 60601-1:2006/ A1:2013(V3.1) FCC: Part 18 Class B,
Dimension Carton Dimension/	647.8 x 388.7 x 63.4 (mm) 730x 560 x 300 (mm)	576.1 x 344.3 x 62.1 (mm) 670 x 530 x 265 (mm)	527.3 x 348.5 x 55.6 (mm) 570 x 478 x 260 (mm)

MEDDP-615
15.6" Slim Medical LCD Monitor

MEDDP-415
15" Slim Hospital type LCD Monitor

Application

Main Specification

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

System

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

I/O

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

Mechanical and Environment

Power Requirement	DC12V / 5A power input	DC12V / 5A power input
Operating Temperature	5°C ~ 40°C(41°F ~ 104°F)	5°C ~ 40°C(41°F ~ 104°F)
Storage Temperature	-10°C ~ 60°C(14°F ~ 140°F)	-10°C ~ 60°C(14°F ~ 140°F)
Storage Humidity	10%~90%@35°C, non-condensing	10%~90%@35°C, non-condensing
Gross Weight	2.8 kg (6.2lb)	2.6kg (5.73 lb)
Net Weight	6.5 kg (14.33lb)	3.7 kg (8.16lb)
Certifications	CE: EN 60601-1-2:2015(V4.0),EN 60950-1 EN 60601-1:2006/A1:2013/A12:2014 (V3.1) EN 62366:2007 + A1:2014 (V1.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0) FCC: Part 18 Class B, Part 15 Class B
Dimension Carton Dimension/	420.2 x 388.2 x 67.0 (mm)	352.5x 276.1 x 45.0 (mm) 402.5x 326.1 x 80.0 (mm)

MEDPC Series
for Medical Equipment

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

Key Features:

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

Ready-to-use Medical Certified Platform

Latest Off-the-shelf Processor for Selection

Unique Medical Device Functions

5-7 Year Longevity Lifecycle Support

MEDPC-9100
High Performance Medical Grade Fanless Box PC with Intel 6/7th Generation Core™ i Series

MEDPC-9200
High Performance Medical Grade Fanless Box PC with Intel 6/7th Generation Core™ i Series

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

❀ Application

Hospital InformationSystem, Medical equipmetn, Drug Store, Lab

❀ System specification

Processor	Intel® Xeon E3-1505M v5 2.8GHz / Core i7-6820EQ 2.8GHz	Intel® 7th/6th Generation Core™ i7/Core™i5/Core™ i3	AMD RyzenTM Embedded V1000 V1807B / V1605
System Memory	Supports Dual Channel DDR4 SODIMM up to 32GB	Supports Dual Channel DDR4 SODIMM up to 32 GB	DDR4 SoDIMM x2, Max. 32GB (V1807B) DDR4 SoDIMM x2, Max. 24GB (V1605B)
OS Support Chipset	Windows® 7, Windows® 8.1,Windows®10, Linux® (optional)	Windows® 7, Windows® 8,Windows®10, Linux® (optional)	Win 10 IoT Enterprise 64-bit / Linux Ununtu 64-bit
Expansion Interface	M.2 E Key for WiFi x1 , PCIe[x16] x1, PCIe[x4] x1, PCIe[x1]x1	PCI-Express [x1] x 1,Half-size Mini-Card x1, Full/Half-size Mini-Card x1	1x PCI-E(8x), M.2 (M-key, type:2230) ,1x M.2 (E-key, type:2280)
Storage Disk Drive	2.5" SATA	2.5" SATA SSD x 1, mSATA(3Gb/s)	2.5" SATA SSD x 1, M12(Ekey,Type 2280) x1

❀ Graphic Specification

Chipset	Intel® CM238	Intel® H110	N/A

❀ I/O

Video	Display Port x 1	Display Port x 1, HDMI x 1	Display Port x 1, HDMI x 1
Audio	Mic-in, Line-out	Mic-in, Line-out	USB Type C x 1 , Line in x 1, Line out x 1
USB	USB 3.0 x 4	USB 3.0 x 4	USB 3.1 x 2 USB 2.0 x 2, USB TypeC x 1
Serial Port	COMx2		
Ethernet	1.5 kv Isolated Gigabit LAN x 2	Gigabit LAN x 2	Gigabit LAN x 2

❀ Mechanical and Environmental

Power Requirement	DC12~24V power input	DC12~24V power input	DC12~24V power input
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)		
Net Weight	2.5 kg in the single layer, 3.7 kg in two layers	2.5 kg in the single layer, 3.7 kg in two layers	2.5 kg in the single layer, 3.7 kg in two layers
Certifications	CE: EN60601-1-2:2015(V4.0), EN60601-1:2006/ A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B , Part 15 Class B UL:ANSI/AAMI ES60601-1:2012(V3.1) CUL: CAN/CSA-C22.2 No.60601-1:2014(V3.1)		

MEDPC-5700
Fanless Medical Grade Box PC

MEDPC-2700
Fanless Quard Core Box PC

� Application

Hospital Information System, Medical equipmetn, Drug Store, Lab

✖ System specification

Processor	Intel® Quad Core i7-4770TE Intel® Quad Core i5-4570TE Intel® Quad Core i3-4370TE	Intel® Cherry Trail x5-Z8350 SoC
System Memory	Supports Dual Channel DDR3 SODIMM up to 16GB	DDR3L on board up to 4GB, default support 2GB
OS Support Chipset	Windows® 7, Windows® 8, Linux® (optional) ,Windows® 10	Windows®10,Android 6.0
Expansion Interface	Mini Card x2 [full x1,half x1]	N/A
Storage Disk Drive	2.5" SATA HDD / SSD x 1	emmc on board, default support 32GB

✖ Graphic Specification

Chipset	Intel® HD Graphics	Intel® HD Graphics

✖ I/O

Video	Display Port x 1, HDMI x 1	HDMI x 1
Audio	Mic-in, Line-out	N/A
USB	USB 3.0 x 4 USB 2.0 x 4	USB 2.0 x 4
Serial Port	N/A	N/A
Ethernet	Gigabit LAN x 2	Gigabit LAN x 1

✖ Mechanical and Environmental

Power Requirement	DC12~24V power input	DC 5V power input
Operating Temperature	0°C ~ 40°C(32°F ~ 104°F)	0°C ~ 30 °C(32°F ~86°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	
Net Weight	1.5kg (3.3lb)	1.0Kg (2lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1), EN 300 328 (V2.1.1), EN 301 893 (V2.1.1) FCC: Part 18 Class B, Part 15 Class B, Part 15 C/E UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1), EN 300 328 (V2.1.1), EN 301 893 (V2.1.1) FCC: Part 18 Class B, Part 15 Class B, Part 15 C/E UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

MEDPC-2100
Fanless Quard Core Box PC

MEDPC-2000
Fanless Quard Core Box PC

❋ Application

Hospital Information System, Medical equipmetn, Drug Store, Lab

❋ System specification

Processor	Intel® Quad Core Celeron J1900 2GHz	Intel® Quad Core Celeron J1900 2GHz
System Memory	2GB DDR3 up to 8GB	2GB DDR3 up to 8GB
OS Support Chipset	Windows® 7, Windows® 10	Windows® 7, Windows® 8, Windows® 10
Expansion Interface	Mini Card Slot x 1 [half size]	Mini Card x 2 [full x 1, half x 1]
Storage Disk Drive	2.5" SATA HDD / SSD x 1/Cfast Card x 1	Cfast card

❋ Graphic Specification

Chipset	Intel® HD Graphics	Intel® HD Graphics

❋ I/O

Video	VGA x 1, HDMI x 1	VGA x 1, HDMI x 1
Audio	Line out, Mic-in	Line out, Mic-in
USB	USB 2.0 x 3 , USB 3.0 x 1	USB 2.0 x 3 , USB 3.0 x 1
Serial Port	RS232 x1	RS232 x2
Ethernet	Gigabit LAN x 1	Gigabit LAN x 2

❋ Mechanical and Environmental

Power Requirement	DC 12V power input	DC 12V power input
Operating Temperature	0°C ~ 40 °C(32°F ~104°F)	0°C ~ 40 °C(32°F ~104°F)
Storage Temperature	-20°C ~ 60°C(-4°F ~ 140°F)	
Net Weight	1.2Kg (2.64lb)	1.7Kg (3.75lb)
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1), EN 300 328 (V2.1.1), EN 301 893 (V2.1.1) FCC: Part 18 Class B, Part 15 Class B, Part 15 C/E UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1), EN 300 328 (V2.1.1), EN 301 893 (V2.1.1) FCC: Part 18 Class B, Part 15 Class B, Part 15 C/E UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)

Medical Slim MB for OEM/ODM

Medical Slim MB is a ideal solution for medical computer or instrument. EMI prescan is done to guarantee EN 60601-1-2 compliance. Onyx provides the latest ultra low power and high performance Intel platform to minimize the effort in cpu cooler design.

Key Features:

- Intel Ultra Low Power Processor
- Dual Independent Display: LVDS, DP
- Dual PCI Express Slots
- Wide Range DC Power Input
- Medical Grade EN 60601-1-2 Compliance

OMB-M228
Skylake Medical Motherboard

✿ Main Specification

Processer	Intel 6th Generation Core i7-6600U 3.4GHz Dual Core
System Memory	Supports Dual Channel DDR4 SODIMM up to 32GB
Expansion Interface	PCI Express[x4] x1, PCI Express[x1] / PCIx1(optional)
OS Support	Windows 7, Windows 8.1, Windows 10, Linux

✿ Rear I/O

USB	USB 3.0 x4
COM	N/A
Ethernet	Gigabit LAN x2
Audio	N/A
Power Input	DC 12~24V

✿ Internal I/O

Display Output	LVDS x1, Display Port x1
USB	USB 3.1 x2, USB 2.0 x6
COM	RS-232 x2
Audio	Mic, Line-out
Serial ATA	SATA 6.0Gb/s x2
Touch Screen Interface	Supports 5-wire Resistive Touch Screen
Speaker Connector	5W x2

✿ Mechanical and Environment

Operating Temperature	0°C ~ 60 °C
Dimension	160mm x 209mm
Certifications	CE & FCC Class B