onyx
Smart Healthcare

Venus

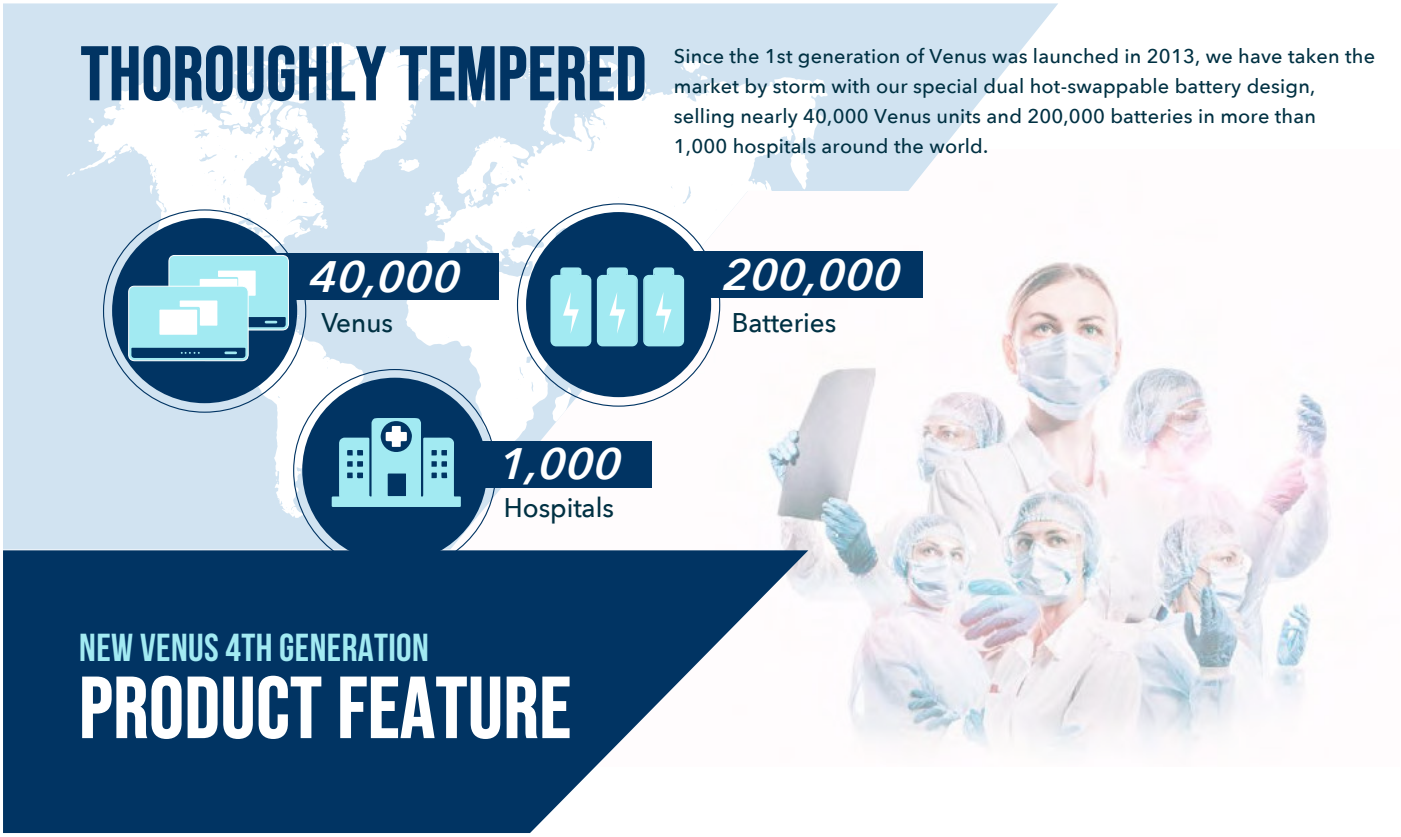
Mobile Cart Computer

debetrek

An All-In-One Panel Computer

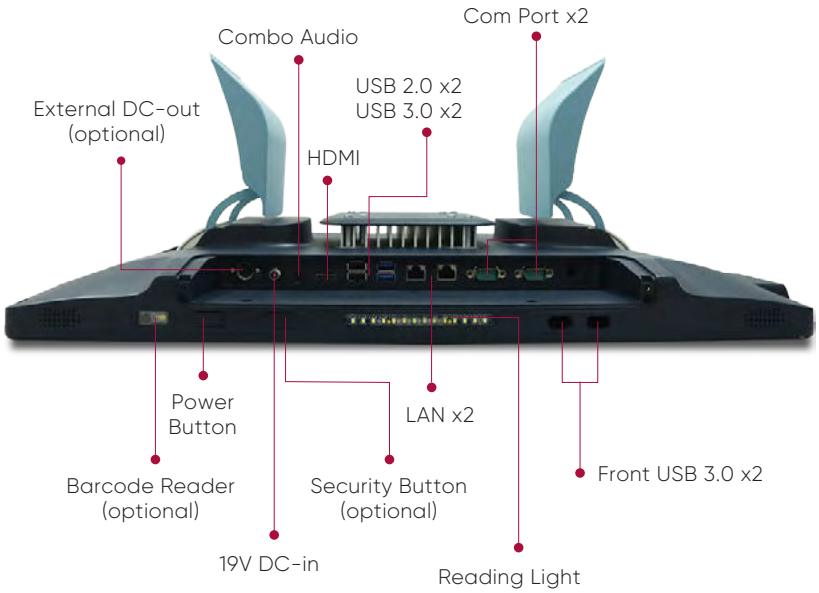
The Onyx mobile cart computing solution is an all-in-one panel computer that provides 24/7 non-stop service and true mobility. The Venus series features a swappable battery system and universal mounting slots. The battery system allows users to replace one of the batteries without switching the computer off. Additionally, the dual batteries are designed to enable a long running time and short charging time.

The lightweight design of the mobile cart computer features a magnesium alloy rear cover which provides superior strength and enables greater heat dissipation. The mounting slots provided will fit any medical cart. Other features that come with the unit such as RFID, reading light bar and smart card scanner provide ease of use for the operator.



Venus-224

24" Dual Hot Swappable Battery Medical Cart Computer



Features

- » Intel® 10nm Tiger Lake processor.
- » Security protect while away: LCD auto turn-off. Telemedicine solution integration.
- » Dual hot swappable battery design Customize alarm LED and physical button

Main Specifications

Processor:	Intel® 10nm 11 gene. Tiger Lake i7/i5/i3/Celeron
System memory:	DDR4 up to 16GB
OS support:	Microsoft® Windows 10 (64bit)
	Ubuntu 20.04 LTS
	IGEL (thin client solution)
Graphics:	Intel® UHD Graphics
Storage:	m.2 SSD up to 1TB
Wireless communication:	802.11 ax/ac/a/b/g/n + BT 4.0 (optional)
Touch:	PCT (optional)
Speaker:	3W x2
Trusted Platform Module:	TPM 2.0
Security:	Smart Card Reader (optional)
	Imprivata RFID reader (optional)
	Barcode reader (optional)
Waterproof:	Front IP65; rear IPX1

Display

Display size:	23.8"
Resolution:	FHD 1980 x 1080
Max. colours:	16.7M
Contrast ratio:	3000:1
Luminance (cd/m2):	250

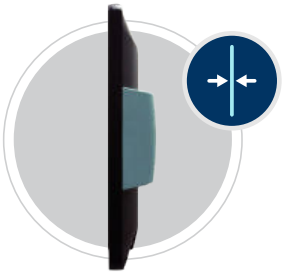
I/O

USB:	Rear I/O : USB 3.0 x2, USB 2.0 x2 Front button I/O : USB 3.0 x2
Video out:	HDMI 1.4 x1
COM:	COM port x2
Audio:	Combo audio port x1
Ethernet:	1.5kv isolated Gigabit LAN x2
DC-in:	19V 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
Dimension:	560(L) x 78.4(W) x373(H)
Net weight:	7kg (15.4 lbs)

Features and Benefits



Slim Design

In the past, in order to achieve medical grade protection, computers often needed to be bulky and heavy. Through the efforts of the Onyx team, we have broken through this limitation, offering users medical-grade protection in a lighter, slimmer, and more modern design.

Onyx RushRecovery (optional)

As computers become more powerful, the number and complexity of their operations grow. When PC settings are changed unexpectedly, they can often cause a computer to crash. In hospitals, patient safety often includes a race against time, where computer crashes must be recovered from as quickly as possible. RushRecovery is a solution designed by Onyx and Apacer that can restore your system's original state, allowing hospitals to deal with computer abnormalities with almost no loss to data or productivity.

Reading light/UV light (optional)

In the previous generation of Venus, the reading light was a very distinctive part of the design that allowed users to complete their work more easily in dim environments. With this new generation we will provide another option, by upgrading the reading light to a UV light, so that when the cart sits idle, it can effectively assist in disinfecting the desktop and nearby equipment.

Extending battery life/run time

Battery management is a hidden IT cost for hospitals, so allowing a battery to run longer and with more cycles will save on these kinds of expenses, whether it is in management costs or battery procurement costs. With the user's consent, the new generation of Venus can collect battery usage behavior with ORION and then calculate the best settings for each battery to extend its life and cycles. This backward compatible technology even works with old batteries.

Intel® 10nm Tiger Lake Processor

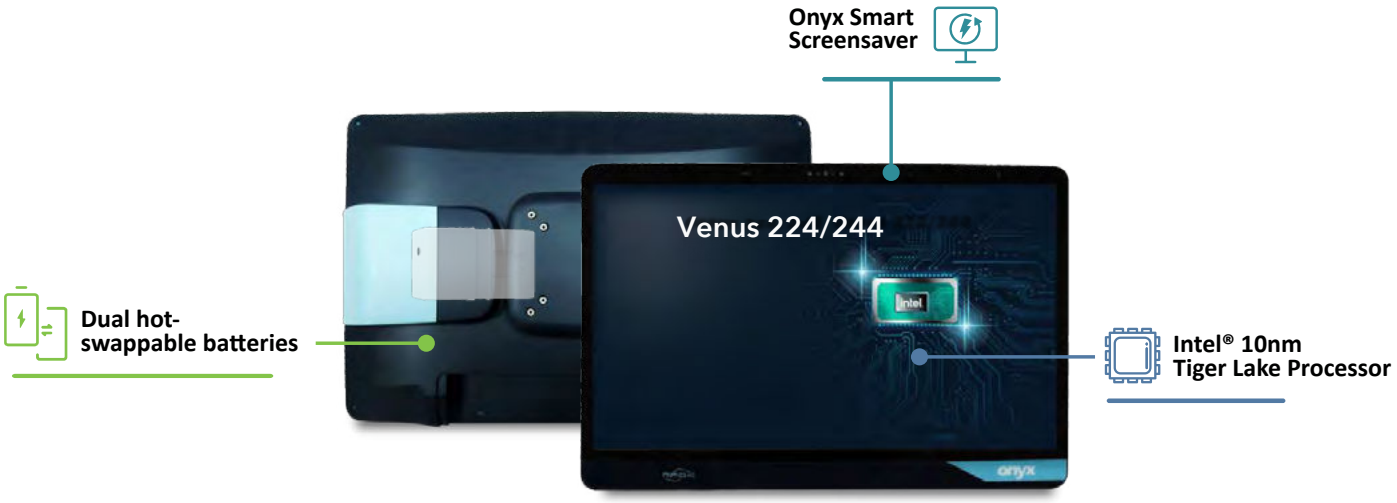
The 4th generation Venus is powered by the latest 11th Gen Intel® Core™ processors that deliver a balance of performance and responsiveness in a low-power platform built on the third-generation 10nm process technology. The platform combines a high-performance CPU, up to 23% faster single thread performance, and up to 19% faster multi-thread performance. With new Intel® Iris® Xe graphics, the platform offers up to 2.95 times faster graphics performance, plus PCI Express 4.0 and Thunderbolt™ 4/USB4. Engineered to deliver optimum results for IoT markets, these processors can support low-latency and time-sensitive applications, and have the power to run multiple workloads including AI and deep learning applications on a single platform.

Dual hot-swappable batteries

Naturally, Venus retains its signature feature of dual hot-swappable batteries. The hot-swappable battery design allows any Venus with dead batteries to come immediately back to full power without the need to wait for charging. The new Venus is still compatible with the original battery system, but we have strengthened the waterproofing of the battery bay, as well as simplified the battery switch-out process, improving from the original 3 second, two-step process to a one step execution that takes only 1 second.

Onyx Smart Screensaver

Differing from the traditional Windows screensaver, the Onyx smart screensaver can automatically log out and close the screen in just a few seconds after a user walks away from the computer, protecting sensitive information and increasing power savings. The Onyx smart screensaver is simple to set up through our exclusive IR technology and does not require any personal information. Even wearing a mask does not affect its functionality.



DC output (optional)

Our users chose Venus to replace the bulky batteries of traditional battery care carts, meaning that Venus should provide support as a power output device for additional power to secondary devices when needed. The optional SOW DC output allows users to easily connect dual monitors, thermal printers and other external devices without the need to prepare additional power.

Dual Wi-Fi & dual SSD

Venus has built-in dual M.2 slots supporting two Wi-Fi modules for devices such as endoscopes, ultrasound and other devices that require a large bandwidth wireless network connection. Venus can connect to the Internet and these devices at the same time, to easily transfer images to the network in real time. The dual SSD design also allows users to separate the operating system from the data storage area, so that data is better protected.

Alarm LED (optional)

A customized RGB LED can be installed on the upper front side of the Venus and connect to applications to act as an intuitive reminder, for example, as an emergency call bell, or equipment malfunction warning light.

Barcode reader (optional)

A customized RGB LED can be installed on the upper front side of the Venus and connect to applications to act as an intuitive reminder, for example, as an emergency call bell, or equipment malfunction warning light.

Extension bracket

Depending on how the Venus is installed, users will need something on which to place items. The Venus is designed with a bracket that can be extended to conveniently place items such as a barcode reader and thermal printer.

Customisable button (optional)

A customizable button can be installed on the underside of the Venus that can link to applications to trigger special functions such as turning off the LCD, or calling for help.

Accessories

UP-P22: 2-Slot Battery Charger

The 2nd generation of our 2-slot battery bank introduces two exciting new features; first, the addition of a USB port offers greater convenience for monitoring battery performance with our ORION software, and second, the battery bank can a/so convert battery power directly to DC output, effectively making it a uninterruptible power supply that can provide up to SOW of power to external devices.

This generation continues to provide flexible mounting options for carts, walls and tables to satisfy your unique installation requirements. Cart mounting can further extend the backup power with an additional two batteries, eliminating the risk of unexpected power loss. Wall mounting offers the greatest flexibility as the battery bank can be attached to any fixed vertical surface. Ideal for use in hospitals, wall mounting solutions provide convenient and accessible extended power for medical staff. Our table stand mounting solution is designed to be small enough to free-up extra space at nursing stations or other areas where desktop space is at a premium.

Main Specifications

Input power:	24V/150W
LED indicator:	Green light: Battery fully charged Blue light: Battery pack is charging
Battery type:	Li-ion battery
Battery charge time:	2 hrs for 85%, 3hrs for 100%
Certification:	CE, FCC

Mechanical

Architecture:	ABS+PC
Colour:	White
Packing size:	396(L) x 106(W) x 279(H) mm
Weight:	0.67kg (1.47 lb)
Gross weight:	2kg

Environmental

Operating temperature:	0°C ~ 40°C (32°F ~ 104°F)
Storage temperature:	-20°C ~ 60°C (-4°F ~ 140°F)
Storage humidity:	10%~95%@35°C, non-condensing

OPM-P01 C: 6-slot battery charger

The 6-slot battery bank introduces the addition of a USB port that offers greater convenience for monitoring battery performance with our ORION software. This trusted power bank continues to offer built-in smart-charging functionality that can quickly and safely charge six batteries in just two hours, and includes a unique safety feature which will automatically start the charging process and stop charging when any unusual signals are detected.

Main Specifications

Input power:	24V/250W
LED indicator:	Green light: Battery fully charged Blue light: Battery pack is charging
Battery type:	Li-ion battery
Battery charge time:	2 hrs for 85%, 3hrs for 100%
Certification:	CE, FCC

Mechanical

Architecture:	ABS+PC
Colour:	White
Packing size:	410(L) x 110(W) x 290(H) mm
Weight:	1.16kg (2,56 lb)
Gross weight:	3kg

Environmental

Operating temperature:	0°C ~ 40°C(32°F ~ 104°F)
Storage temperature:	-20°C ~ 60°C(-4°F ~ 140°F)
Storage humidity:	10%~95%@35°C, non-condensing

Table stand

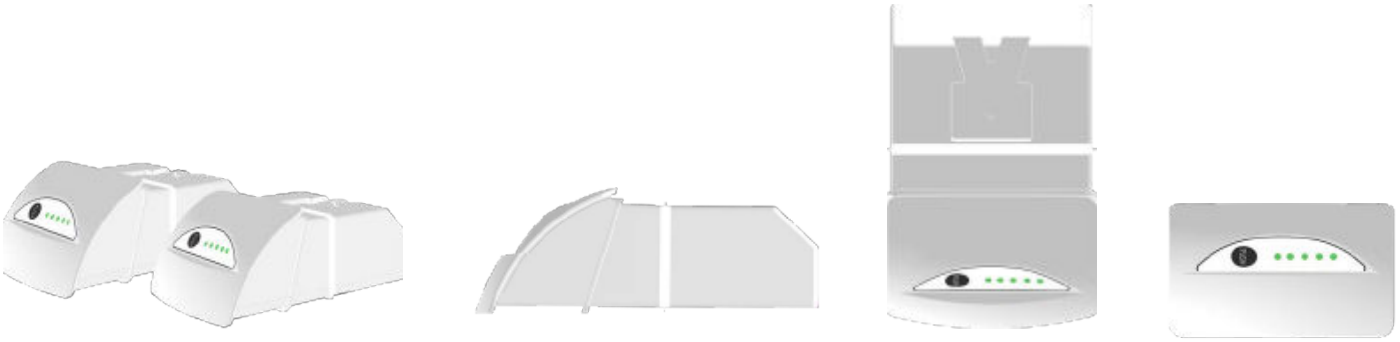
USB Port

External DC Outlet

Features

- Capable of charging 2/6 batteries simultaneously
- 2/6 independent LED indicators, clearly reveal recharge status
- Hi-speed recharge and over charge protection

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



Main Specifications

Battery type:	3S3P / 9 Cell Li-ion battery
Battery voltage:	10.95V
Battery capacity:	8550mAh
Warranty:	1 year
Charging time:	3.5 hrs 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)
Compatible:	Venus all series, UPower all series
Certification:	UL, CE, IEC-60950-1, IEC-62133-1

Features

- Compatible with all Venus-series and all UPower-series
- X1.5 battery capacity increase
- 120W output, fit almost 99% AIO/NB
- Supports remote management software (ORION)
- Battery capacity indicator button
- Medical grade certified (with Venus)
- Lightweight design

Mechanical and Environmental

Architecture:	ABS + PC
Colour:	White
Dimension:	125(L) x 80(W) x 45(H) mm
Net weight:	0.8kg (1.76 lbs)
Packing size:	230(L) x 200(W) x 85(H) mm
Gross weight:	2kg (4.41 lbs)
Operating temperature:	0°C ~ 40°C(32°F ~ 104°F)
Storage temperature:	-20°C ~ 60°C(-4°F ~ 140°F)
Storage humidity:	10%~95%@35°C, non-condensing

Battery LED Indicator

One LED flashing:	0% capacity
One LED lighting:	1%~25% capacity
Two LED lighting:	25%~50% capacity
Three LED lighting:	50%~75% capacity
Four LED lighting:	75%~100% capacity

*Please see the user guide for more details.

OPM-P01T: 2 Battery kit. Lithium-ion 3S2P Battery Pack. 10.8V

Main Specifications

Battery pack:	3S2P / 6 cell lithium-ion battery
Typical capacity:	5700 mAh
Nominal voltage:	10.8 V
Power consumption:	62.64 Wh
Battery run time:	6 hr
Warranty:	1 year
Certification:	UL,CE,IEC-60950-1,IEC-62133-1

Mechanical and Environmental

Colour:	White
Dimension:	230(L)X150(w)x90(H) mm
Weight:	320g/pcs
Gross weight:	0.9kg
Gross weight:	2kg (4.41 lbs)
Operating temperature:	0°C ~ 40°C(32°F ~ 104°F)
Storage temperature:	-20°C ~ 60°C(-4°F ~ 140°F)
Storage humidity:	10%~95%@35°C, non-condensing

Features

- Support battery management system, remote monitor and auto alarm
- LED indicator, easily to check battery status
- Light weight, only 320g!!

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