

# 2021

## MEDICAL SOLUTION

PRECISE SOLUTION FOR DIGITAL  
TRANSFORMATION IN HEALTHCARE



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# Medical Solution

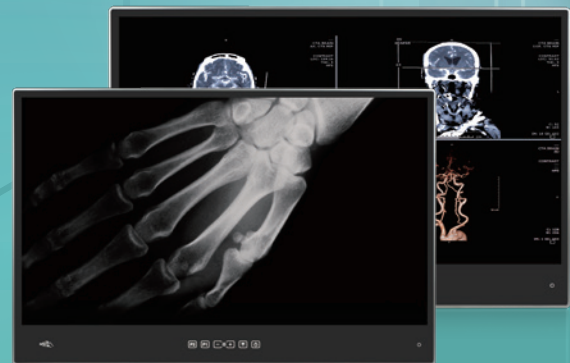
## Precise Solution for Digital Transformation in Healthcare

IEI is deeply involved in the medical industry. We continuously integrate the latest technologies to develop high-quality and reliable nursing cart computers, all-in-one panel PCs, AI box PCs and other innovative products to provide high-quality medical solutions, create a good working environment for medical personnel, and ensure better medical services for patients.

### » All-in-One Medical Panel PCs



**IASO**  
10.1"



**POCi Series**  
22"/24"



**POCm Series**  
22"/24"



**POC Series**  
17"/22"



» AI Box PCs

» Medical Box PC



HTB-210-Q470



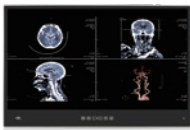
HTB-100-HM170



# Fit in Different Fields

We can help medical personnel, hospitals and system integrators better understand current healthcare issues and how to improve them; we provide proper solutions to hospitals for facilitating digital transformation.

## Outpatient Dept.



POCi Series



POC Series



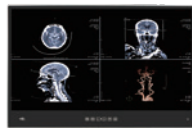
IASO

- EMR
- Vital sign measurement

## Operating Room



HTB-210



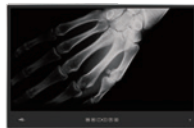
POCi Series

- Medical image
- Vital sign collection

## Examination Room



HTB-210



POCi Series

- Endoscopy
- Ultrasonoscopy



## Pathology



HTB-210



GRAND-C422

- Precision medicine
- Medical AI computing

## Radiology



POC Series



HTB-210

- RIS/LIS
- Telemedicine
- Medical image

## Lobby



uIBX-250-BW



IASO

- Self-service kiosk
- Queue management

## Ward



IASO



POCm Series

- HIS/NIS
- Medical HMI
- Nursing call system

- Patient engagement
- Mobile nursing station



# Medical Information Gateway

Patient Care from Home to Hospital

## » Chronic Disease Treatment and Tracking, Realizing Remote Medical Care

### Data management and patient status monitoring

IEI medical devices can be connected to most of the measurement devices on the market to lower the threshold of patient data measurement. By replacing the manual recording with the electronic form, health data management can be easily achieved and health status can be accurately monitored.



## Connecting the data at hospital and at home to fulfill telemedicine

Integrate PACS server to implement chronic disease treatment tracking. Patients can upload their own measurement data by RFID, Wi-Fi or other network connections to synchronize with the PACS server in hospital or clinic. The hospital's own system is used in the whole process to ensure safe transmission and protect patients' information.

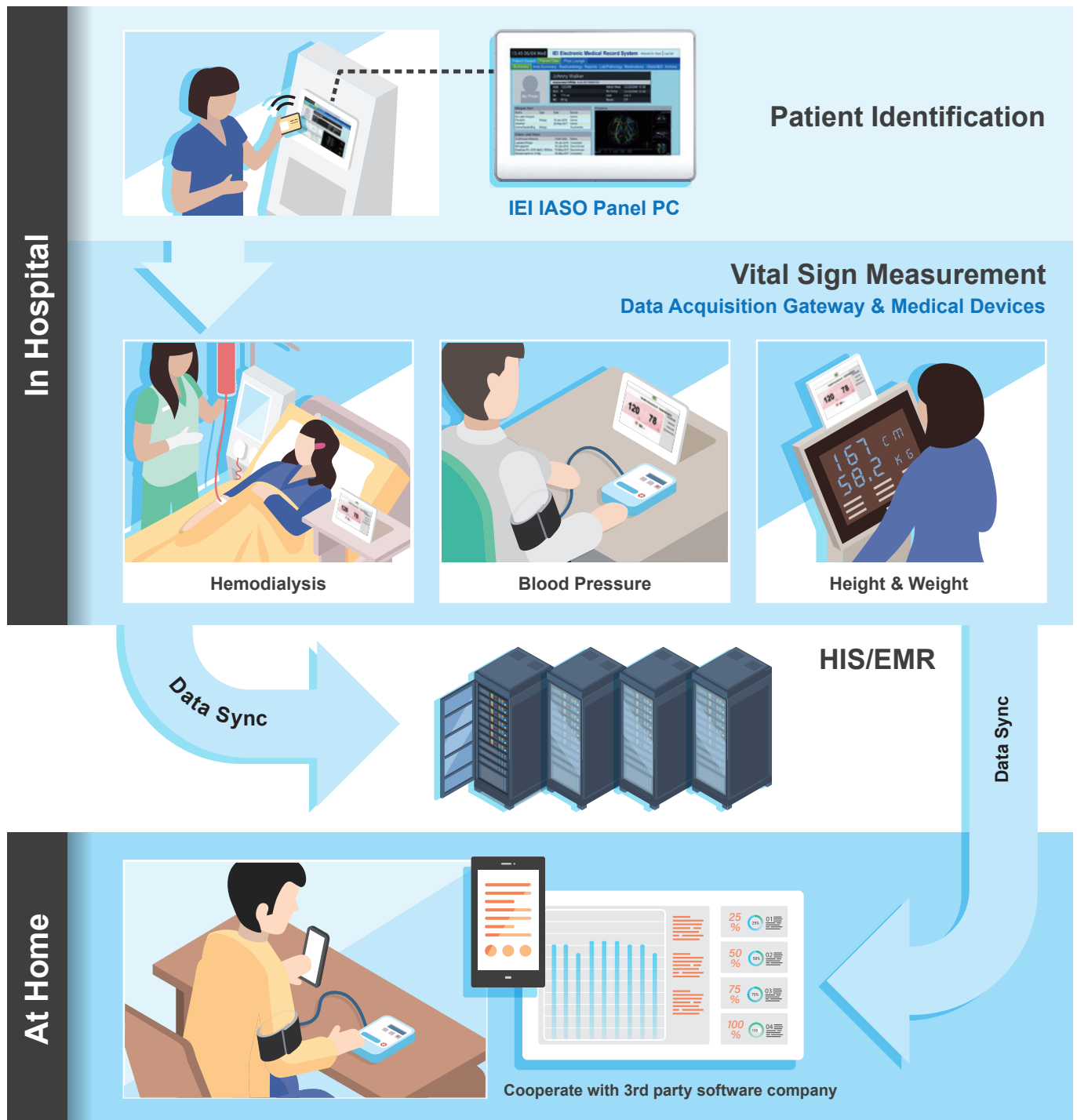


### IASO Product Features

- Light bars on both side
- Intel® Elkhart Lake platform
- Remote device management
- 10.1" Medical Panel PC

The measurement data of the patients with chronic diseases need to be tracked and measured regularly after they leave the hospital. IEI helps to combine the data obtained at home with the medical records at the hospital so that medical personnels can observe the patient's measurement information thoroughly. The hospital only needs to notify the patient whose data is found abnormal to go back to the hospital. That can reduce times for patients to make regular visit to hospitals. The data can also be digitalized to effectively help data integration and tracking.

In addition to synchronizing with the data in the hospital, if the patient is hospitalized, the data can also be saved in the system. These data can be kept intact and effectively used as an evaluation basis for diagnosis and treatment.





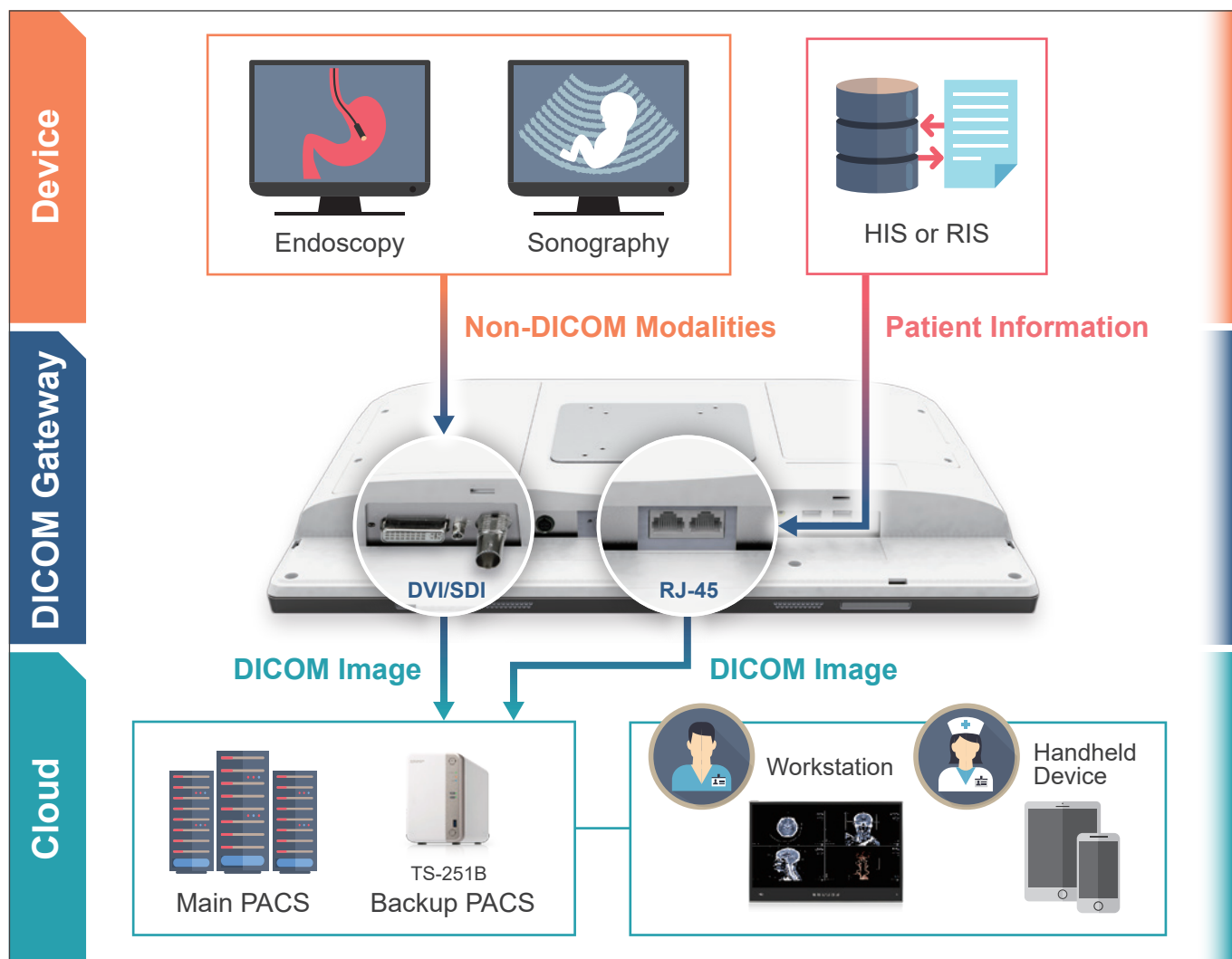
# DICOM Gateway Solution

Transforming Medical Imaging to a New Way

With the exponential increase in imaging performed outside of the traditional PACS systems over the past years, there is an increasing demand to automate processes, normalize data, centrally store and view non-DICOM images holistically with DICOM images.

IEI medical team is thriving to roll out intuitive and painless upgrading solutions to help end users cope with the management work of non-DICOM images. Our solution supports flexible cloud-based, local-based and hybrid deployment to meet various demands for different hospitals.

## » DICOM Gateway Workflow




## » Modular Expansion Design


The highly expandable PCIe x4 slot makes the whole system more flexible and easily meet the individual needs from different applications. For instance, adopting an AI accelerator card to enhance computing power, adding an all-in-one capture card to connect with medical devices, integrating PoE injector card with webcam, or expanding the desired I/O card for multiple usage.

### 1. Add-on Card


**A** PoE Card



**B** Capture Card





**C** Isolation I/O Card




Dimension limits (WxDxH): up to 64.4x134x20 mm  
Power limits: TDP up to 30 watts, 12V/2.5A

### One size fits all


### 2. Built-in Medical Grade Power



\*MOQ: 50 pcs

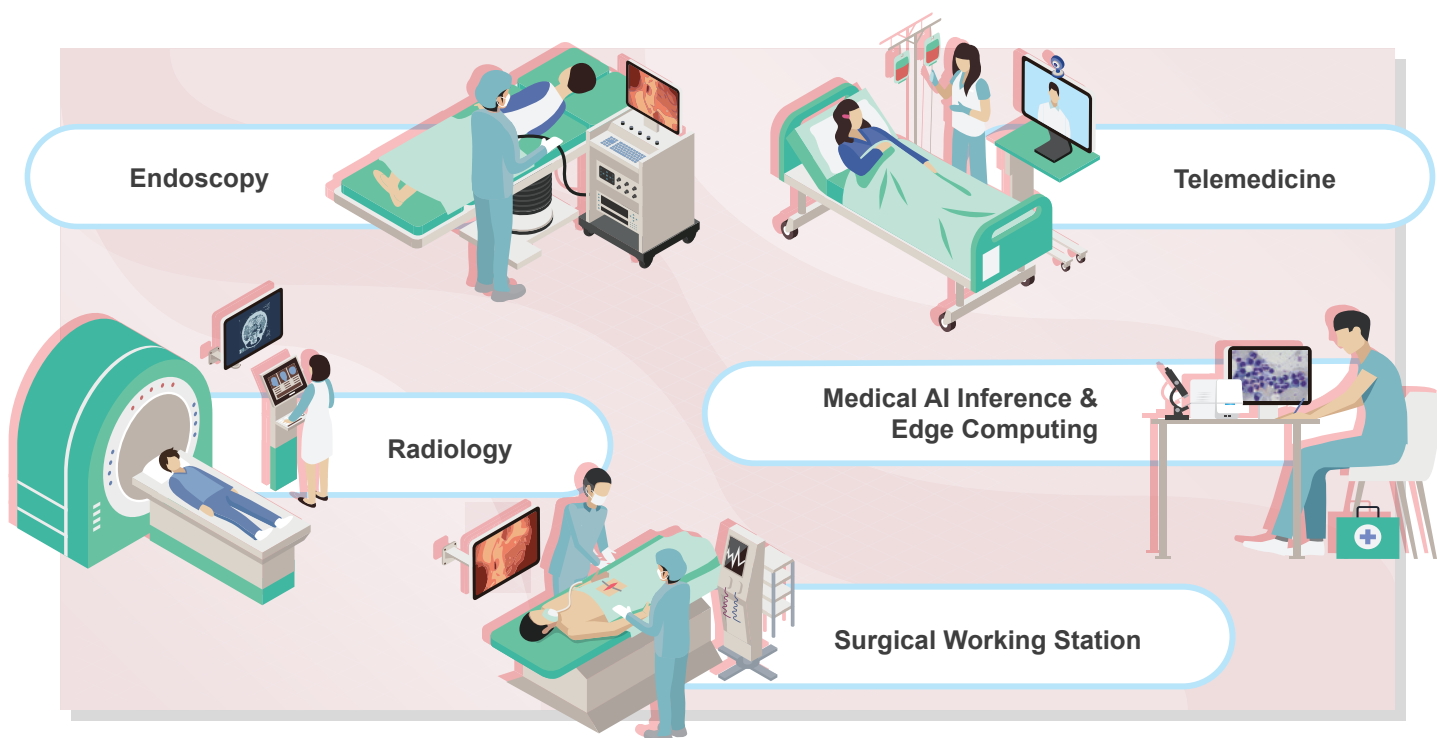
### 3. Built-in Battery

Provides emergency power for 60 mins



\*MOQ: 50 pcs

## » Perfect Fit in Various Medical Fields



**Endoscopy**

**Telemedicine**

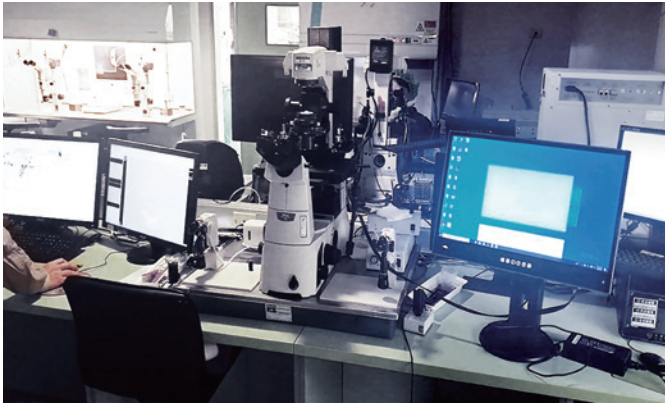
**Radiology**

**Medical AI Inference & Edge Computing**

**Surgical Working Station**

## Applications

The POCi-W22C-ULT5 is used as a DICOM gateway to digitize and integrate medical images into the Main PACS system of the hospital, achieving true digital integration for the entire process, from inspection, transmission, storage, access to management.



▲ Fertility & Reproductive Genetic Center at the Chang Gung Medical Foundation (Taiwan)



Before



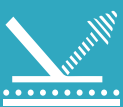
After

▲ Endoscopy in the Tri-Service General Hospital Songshan Branch (Taiwan)

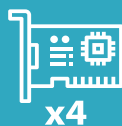
## » POCi Series Features



- TPM 2.0
- FHD IPS panel
- Fanless design
- Flexible storage solution
- Electrostatic discharge (ESD) protection
- 8<sup>th</sup> Generation Intel® Core™ (code named: Whiskey Lake)
- RFID indicator
- Support Wi-Fi 6
- 10-point multi-touch
- True flat OSD hotkey buttons
- Chemical resistance for easy sterilization



AG Etching  
Glass



Modular  
Expansion  
Design



Ultra-slim  
Aluminum  
Front Bezel



DICOM Module



Isolated I/O  
Ports

# Central Management Solution

Shortening Distance, Improving Service Quality

## » The Pain Points of Device Management in Hospitals

### Pain Points

Poor efficiency of maintenance and update, waste of labor costs.



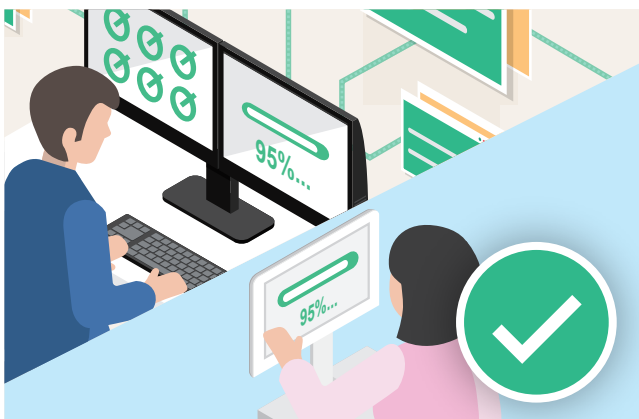
- Update and check devices one by one



- Delayed medical care because IT personnel can't maintain devices immediately

### Manage All Devices by Centralbrain System

High efficiency of maintenance and update, lowering labor costs.



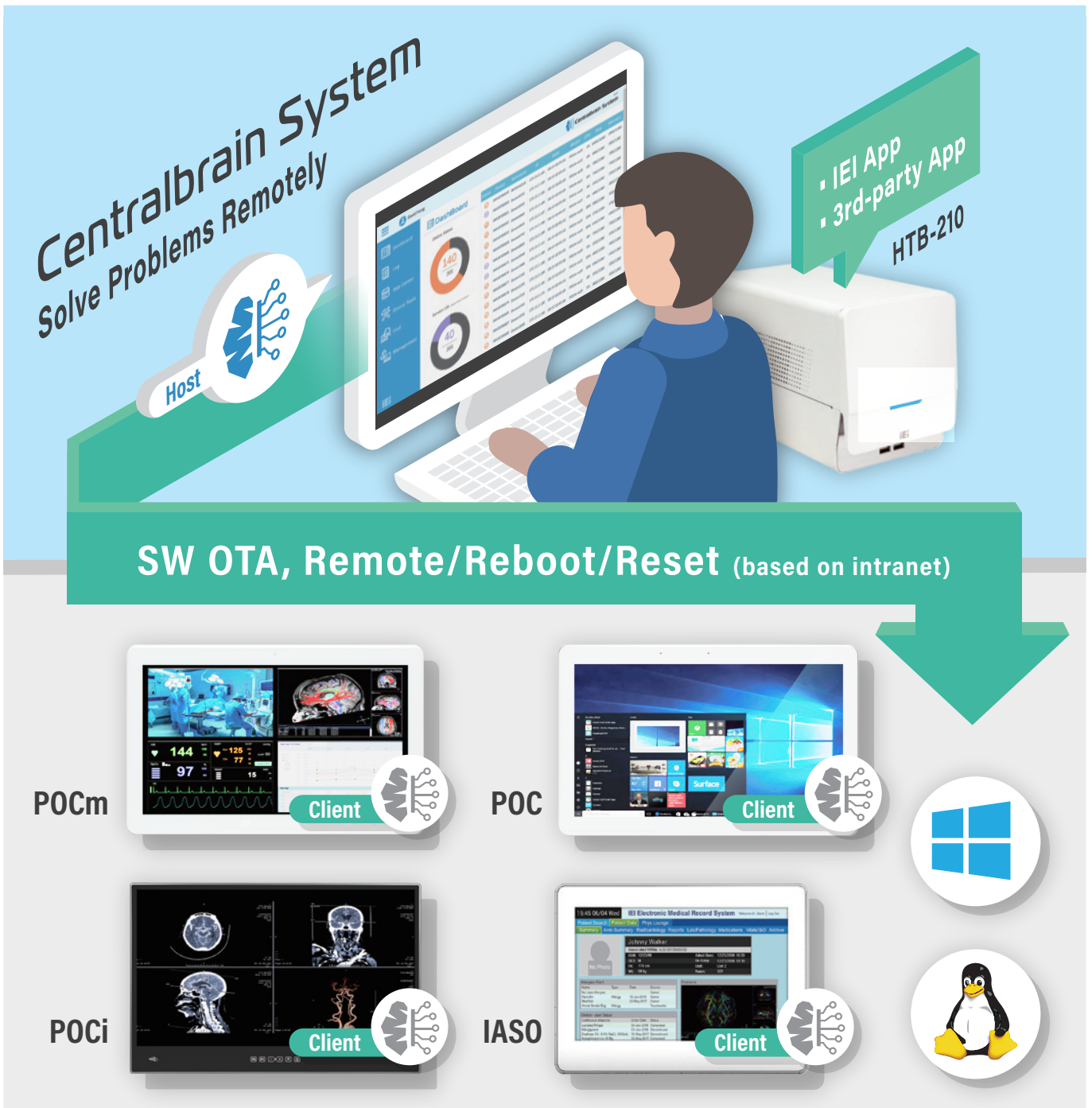
- Update and check devices all at once



- Maintain devices from remote to solve problems immediately

# » Central Management Solution: IEI Centralbrain System

IEI Centralbrain System is designed for managing multiple IEI medical devices in a hospital. This system can help users effectively manage all IEI devices connected to hospital network. Tasks such as status monitoring, product life management and software update/installation can be performed centrally and remotely.



# Body Temperature Monitoring Solution



Detecting a person's body temperature is very important and is first step to fight against infection. Therefore, thermometer products are regarded as indispensable necessities. And yet, most handheld thermometers consume both time and manpower. IEI introduces a brand-new Body Temperature Monitoring Solution, which not only provides plug-and-play functionality but also quick and easy operation, effectually improving the process of taking temperatures.



- An alarm will be triggered when it detects a high temperature.



- It can detect the temperature of a person wearing a mask.



- The person with a high temperature can be easily found by comparing the recognized face and the temperature data.



- The range and value for detection can be adjusted according to users' requirements.



- The detection results will not be influenced if people carry hot drinks.



- The temperature records (e.g. photos, date and time) can be exported for follow-ups.

## » Fit in Every Scenario Application



### Business & Retail

Business buildings, industrial parks, and also all kinds of shopping centers.



### Transportation & Infrastructure

Airports, train stations, sports arenas, school and so on.



### Government & Hospital

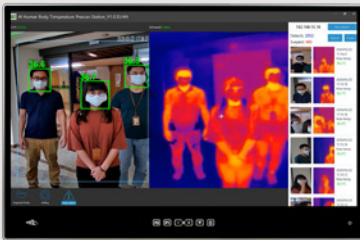
Data can be saved in terminals, ensuring user's privacy. Suitable for government and hospitals.

# » Easy and Accurate Deployment for Fighting Against Pandemic

IEI's Body Temperature Monitoring System combines IEI Panel PC with a thermal camera. It is easy to deploy, and equipped with clear user interface, FHD IPS panel, all-in-one panel PC and high accuracy. This system has everything you need. It can reduce workload, improve the efficiency of temperature measurement and it can be your best partner for pandemic prevention.

## IEI Panel PC

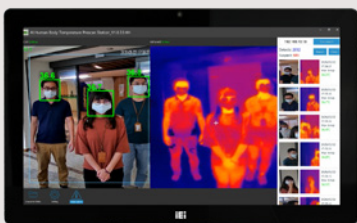
### Available options



POCi-W22C-ULT5



POCm-W22C-ULT3



AFL3-W19C-ULT3

## Thermal Camera

### Available options



Camera 1



Camera 2

Network  
cable

# Mobile Nursing Station

Improving Medical Environment for You

IEI mobile nursing station solution leverages IEI's medical panel PC to accelerate access to EMR (electronic medical record), online chart, wireless network and medical peripherals. Medical data can be integrated among different information systems and hardware devices to improve the efficiency of clinical work and operating process.





# » Medical Panel PCs



## POC Series

### Point-of-Care Terminal

- Rich bottom I/O
- High performance with smart fan / fanless system
- Ambient light sensor for panel brightness adjustment



## POCm Series

### Mobile Point-of-Care Terminal

- High performance fanless system
- Light weight design: under 6.8kg without battery
- 3 hot-swappable batteries with battery management utility support

## » Nursing Efficiency

The POCm series is powered by 3 hot-swappable lithium-ion batteries that can provide sufficient power for 8 hours, and this feature enables nurses to spend more time on caring patients rather than devices. The ergonomic side-facing battery slot eases the use for nurses with different height. Compared to the LiFePO4 battery of the traditional nursing cart, the batteries installed on the POCm have better design by reducing more than 5 kilograms of weight.



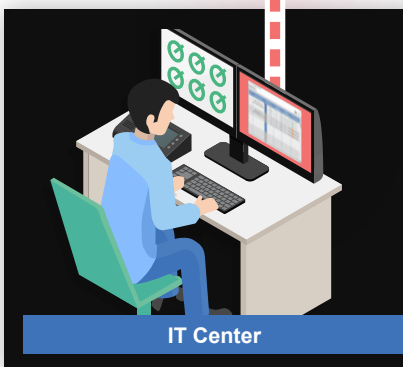
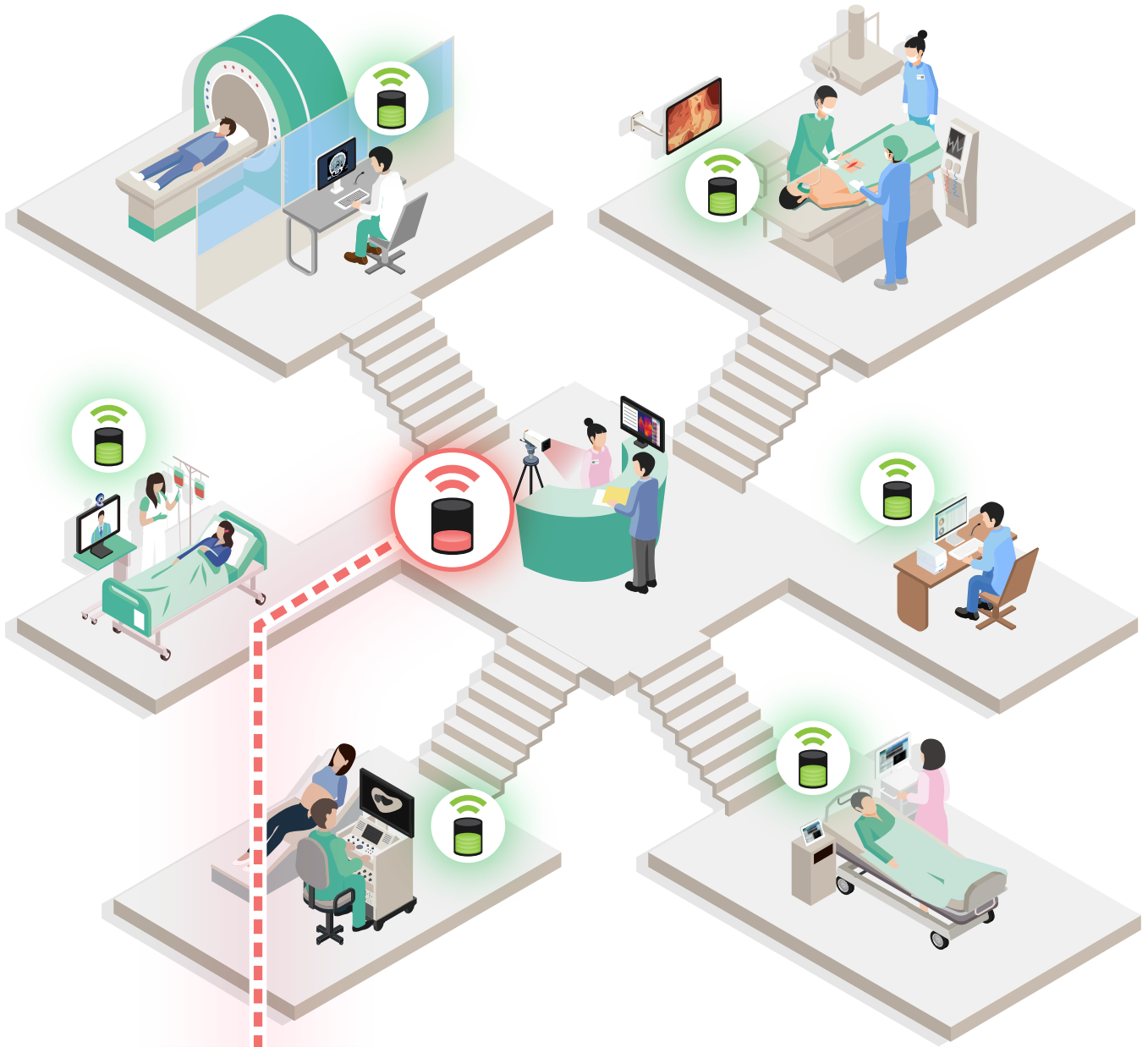
## » Space Optimization

In the past, nurses needed to find spared space to park the medical cart or place the charging dock for battery charging. With the prolonged operating hours of the POCm and the advantages of our 6-bay stackable charging station, their daily clinical workflow is optimized greatly. No more medical cart stuck around the nursing station after ward round. Each nurse on duty can easily replace the batteries at the beginning of their work and no need to face the messy cabling.



# » IEI Battery Monitoring App

With more and more IT devices adopted in the medical environment, the management work can be very stressful for IT technicians in hospitals. To solve this issue, IEI rolls out a remote monitoring solution to cope with the complicated maintenance work. User friendly UI and auto reminder are both designed into the solution.



IEI Battery Remote

IP / Mac Address	Temperature	Time to Fully Charged	Battery Remaining Time	Battery Status
192.168.1.119	23 °C	— hr — min	— hr — min	Stand By
00:18:7D:8B:E5:5F	44 °C	6 hr 26 min	6 hr 26 min	In use
—	43 °C	6 hr 24 min	6 hr 24 min	In use
192.168.1.172	— °C	— hr — min	— hr — min	Not present
10:C3:7B:85:17:EA	— °C	— hr — min	— hr — min	Not present

**IEI Battery Monitoring App (Host)**

IEI Battery Management

Battery Capacity: **23 %** (Battery 1), **98 %** (Battery 2), **98 %** (Battery 3)

Temperature: 23 °C, 25 °C, 26 °C

Time to Fully Charged: —, —, —

Battery Remaining Time: —, —, —

Battery Status: Stand By, Stand By, Stand By

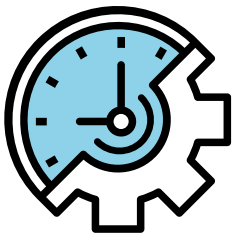
**IEI Battery Monitoring App (Client)**

# Computational System for Precision Medicine

A Better Way to Assist Medical Personnel to Facilitate Diagnosis

With the advance of medical technology, more and more computing systems are adopted by various healthcare professionals for EMR integration, AI computing, medical information transfer, HMI and various medical applications. The entire HTB-210 is developed to help our global partners to tackle the foreseeable growing opportunities in hospital digitalization, precision medicine, and artificial intelligence in healthcare.

## » Benefits of Edge Computing



### Efficiency

Running applications at the edge cuts down network latency and produces faster responses.



### Cost Effective

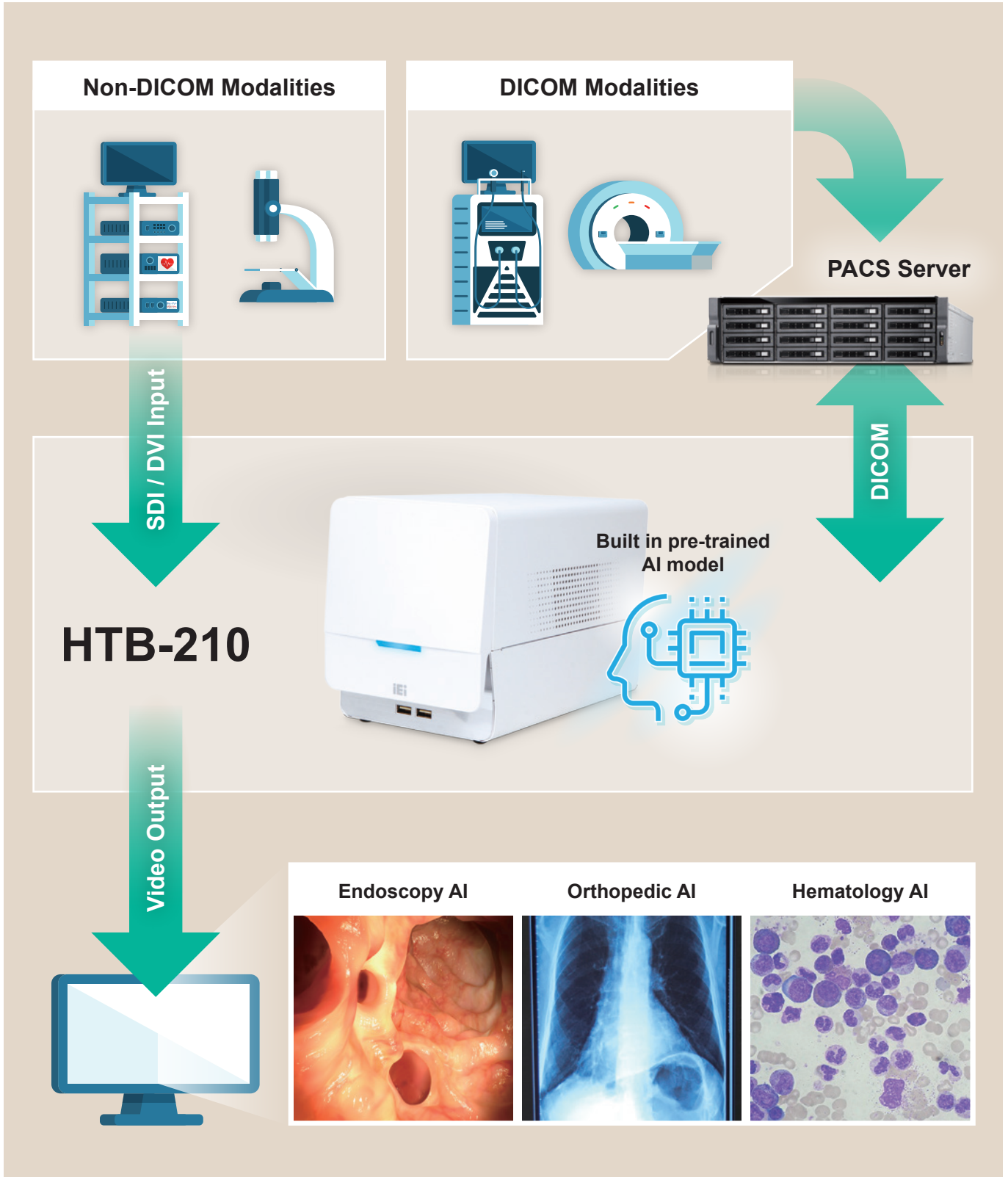
Adding edge servers near user clusters is also likely to be a cheaper way to achieve scalability than fortifying the servers in the corporate data center and provisioning more network bandwidth for every user.



### Reliability

By lowering the dependency on the corporate data center, edge computing removes the single point of failure in the infrastructure, hence reducing its susceptibility to attacks and bandwidth for data transmitting.

# » AI Workflow



## » HTB-100



The HTB-100 is a medical grade fanless system with Intel® desktop CPU. It can serve as a medical controller or a medical gateway.

- Desktop CPU
- Isolated RS-232
- Optional PCIe x16 expansion slot
- Support up to three independent displays

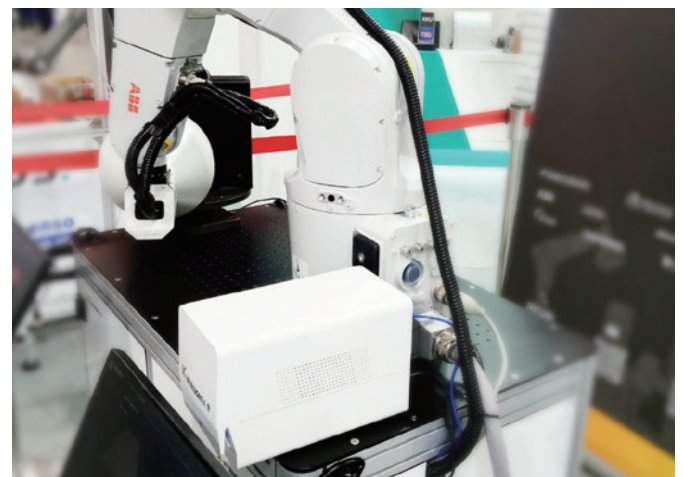


## » HTB-210



It adopts 10<sup>th</sup> Gen Intel® Xeon® & Core™ processor and features smart fan control to minimize the noise generated by system thermal solution. It is a perfect AI landing platform for algorithm development or applications in startup companies.

- Smart fan design
- PCIe x16 slot for GPU cards
- Server grade & desktop CPU
- Small size for easy deployment
- PCIe x4 slot for expansion cards

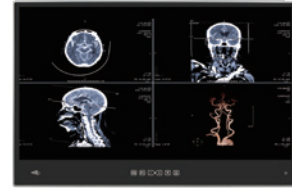
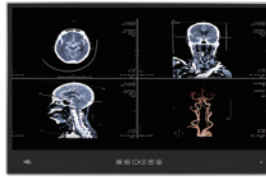


# Selection Guide



Model		IASO-W10B-EHL	
LCD Specifications	LCD Size	10.1"	
	Max. Resolution (W / H)	1280 x 800 (4:3)	
	Brightness (cd/m <sup>2</sup> )	400	
	Contrast Ratio	800:1	
	LCD Color	16.7M RGB 6-bit (Hi-FRC)	
	Pixel Pitch (H / V)	0.1695 x 0.1695 mm	
	Viewing Angle (H / V)	178° / 178°	
	Backlight MTBF (hrs)	30,000 (LED backlight)	
Touch	Touchscreen	Projected capacitive type with 10-point multi-touch	
	Touch Controller	EETI	
	Surface Hardness	6H	
System	CPU Support	Intel® Celeron® J6413 (Elkhart Lake, TDP 10W) Intel® Celeron® N6211 (Elkhart Lake, TDP 6.5W)	
	LAN Controller	1 x Intel® I225-V (2.5G LAN supporting PoE at, with 1.5kV isolation)	
	RAM	One DDR4 SO-DIMM slot	
	Storage	1 x M.2 B+M key (PCIe/SATA signal)	
	Audio	AMP 1W + 1W (internal speaker)	
	I/O Port	1 x HDMI output 1 x Reset button 1 x Power button 1 x 12V DC jack 1 x AT/ATX switch	1 x RS-232/422/485 1 x Audio jack (TRRS) 1 x 2.5G LAN supporting PoE at (with 1.5kV Isolation) 2 x USB 3.2 Gen1 (5Gbps)
	LED	2 x LED light bar (optional)	
	Wi-Fi & Bluetooth	IEEE 802.11 ax 2T2R module (Wi-Fi 6 module) with BT V5.0 (M.2 2230 A-E key)	
	Physical	Construction Material	ABS+PC plastic
Physical	Mounting	Panel, wall, stand and arm VESA 75mm x 75mm, 100mm x 100mm	
	Weight (Net)	1.85 kg	
	Dimensions (LxWxH)	261 x 196.4 x 40 mm	
	Environment	Operating Temperature	-20°C ~ 40°C
Environment	Storage Temperature	-20°C ~ 60°C	
	Humidity	10% to 95% (non-condensing)	
	Vibration	1G	
	Shock	Operating shock: 5G peak acceleration (11ms duration) Non-operating shock: 15G peak acceleration (11ms duration)	
	IP Level	Front: IP65	
	Thermal	Fanless	
	Power	Power Input	12V only (65W) Lockable DC input (AT/ATX support)
Power	Power Adapter	12V only (65W) class 2 medical adapter	
	Certification	EMC & Safety	CE, FCC Class B Part18 IEC 60601-1:2005+AMD1:2012 (Edition 3.1) IEC 60601-1-2: 2014 (Edition 4.0)

# POCi Series



Model		POCi-W22C-ULT5	POCi-W24C-ULT5
LCD Specifications	LCD Size	21.5" (16:9)	23.8" (16:9)
	Max. Resolution (W / H)	1920 x 1080	1920 x 1080
	Brightness (cd/m <sup>2</sup> )	250	250
	Contrast Ratio	1000:1	1000:1
	LCD Color	16.7M RGB 6-bit (Hi-FRC)	16.7M RGB 6-bit (Hi-FRC)
	Pixel Pitch (H / V)	0.24795 x 0.24795 mm	0.2745 x 0.2745 mm
	Viewing Angle (H / V)	178° / 178°	178° / 178°
	Backlight MTBF (hrs)	30,000 (LED backlight)	30,000 (LED backlight)
Touch	Touchscreen	Projected capacitive type with 10-point multi-touch	Projected capacitive type with 10-point multi-touch
	Touch Controller	EETI (80H84)	EETI (80H84)
	Surface Hardness	6H	6H
	Coating	Chemical etching AG	Chemical etching AG
System	CPU Support	Intel® Core™ i7-8665UE (Whiskey Lake ULT platform) Intel® Core™ i5-8365UE (Whiskey Lake ULT platform)	Intel® Core™ i7-8665UE (Whiskey Lake ULT platform) Intel® Core™ i5-8365UE (Whiskey Lake ULT platform)
	LAN Controller	1 x Intel® I211 Ethernet Controller 1 x Intel® I219 Ethernet Controller (AMT 12.x supported by i7/i5 SKUs)	1 x Intel® I211 Ethernet Controller 1 x Intel® I219 Ethernet Controller (AMT 12.x supported by i7/i5 SKUs)
	RAM	Two 260-pin 2400/2133MHz dual-channel DDR4 SO-DIMM, 4GB pre-installed (system max. 64GB)	Two 260-pin 2400/2133MHz dual-channel DDR4 SO-DIMM, 4GB pre-installed (system max. 64GB)
	Storage	1 x M.2 2242/60/80 M key (PCIe x4) 1 x 2.5" accessible SATA HDD/SSD bay	1 x M.2 2242/60/80 M key (PCIe x4) 1 x 2.5" accessible SATA HDD/SSD bay
	Audio	2 x 2W speaker	2 x 2W speaker
	I/O Port	Bottom 1 x DC jack 1 x HDMI 1.4 output 1 x Isolated 1.5kV RS-232 1 x Combo audio-out / mic-in 1 x Isolated Gigabit LAN (I211) 1 x Isolated Gigabit LAN (I219 supports Intel® vPro) 4 x USB 3.2 Gen 2 port	Side 2 x USB 2.0 port
	OSD Function	1 x Power on/off 1 x Reading light on/off 1 x Backlight brightness up	1 x Backlight brightness down 1 x Clean mode on/off 1 x DICOM mode app on/off (optional)
	Expansion	1 x PCIe x4	1 x PCIe x4
	LED	1 x RFID indicator (optional) 2 x LED reading light	1 x RFID indicator (optional) 2 x LED reading light
	Wi-Fi & Bluetooth	IEEE 802.11 ax 2T2R module (Wi-Fi 6 module) with BT V5.0 (M.2 2230 A-E key)	IEEE 802.11 ax 2T2R module (Wi-Fi 6 module) with BT V5.0 (M.2 2230 A-E key)
	Physical	Construction Material	Front bezel: Aluminum die-casting Rear cover: ABS+PC plastic (chemical resistant)
Mounting		Wall, Stand and Arm VESA 75/100	Wall, Stand and Arm VESA 75/100
Weight (Net)		6.9 kg	8.1 kg
Dimensions (LxWxH)		507.5 x 335.5 x 64.5 mm	567 x 370.6 x 63.9 mm
Environment	Operating Temperature	0°C ~ 40°C	0°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C
	Humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)
	Vibration	1G	1G
	Shock	Operating shock: 5G peak acceleration (11ms duration) Non-operating shock: 15G peak acceleration (11ms duration)	Operating shock: 5G peak acceleration (11ms duration) Non-operating shock: 15G peak acceleration (11ms duration)
	IP Level	Front: IP66	Front: IP66
	Thermal	Fanless	Fanless
Power	Power Input	19V DC input	19V DC input
	Power Adapter	150W medical power adapter	150W medical power adapter
	Battery	3S3P Li-ion battery pack, 11.1V, 7800mAh (optional)	3S3P Li-ion battery pack, 11.1V, 7800mAh (optional)
	Built-in Medical Power	150W, 85 ~ 264 VAC, medical power supply (optional)	150W, 85 ~ 264 VAC, medical power supply (optional)
Certification	EMC & Safety	CE, FCC Class B Part 18 EN 60601-1-2: 2015 (Edition 4.0) EN 60601-1:2006/A1:2013 (Edition 3.1)	CE, FCC Class B Part 18 EN 60601-1-2: 2015 (Edition 4.0) EN 60601-1:2006/A1:2013 (Edition 3.1)



# POCm Series



Model	POCm-W22C-ULT3	POCm-W24C-ULT3	
LCD Specifications	LCD Size	21.5" (16:9)	23.8"
	Max. Resolution (W / H)	1920 x 1080	1920 x 1080
	Brightness (cd/m <sup>2</sup> )	250	250
	Contrast Ratio	1000:1	1000:1
	LCD Color	16.7M colors (RGB 6-bit)	16.7M colors (RGB 6-bit)
	Pixel Pitch (H / V)	0.24825 x 0.24825 mm	0.2745 x 0.2745 mm
	Viewing Angle (H / V)	170° / 160°	178° / 178°
	Backlight MTBF (hrs)	30,000 (LED backlight)	30,000 (LED backlight)
Touch	Touchscreen	Projected capacitive type with 10-point multi-touch	Projected capacitive type with 10-point multi-touch
	Touch Controller	EETI	EETI
	Surface Hardness	6H	6H
System	CPU Support	6th Gen Intel® mobile ULT Core™ i7-6600U / Core™ i5-6300U / Celeron® 3855U	6th Gen Intel® mobile ULT Core™ i7-6600U / Core™ i5-6300U / Celeron® 3855U
	LAN Controller	1 x Intel® I211 Ethernet Controller 1 x Intel® I219 Ethernet Controller (AMT 12.x supported by i7/i5 SKUs)	1 x Intel® I211 Ethernet Controller 1 x Intel® I219 Ethernet Controller (AMT 12.x supported by i7/i5 SKUs)
	RAM	Two 260-pin 2400/2133MHz dual-channel DDR4 SO-DIMM, 4GB pre-installed (system max. 32GB)	Two 260-pin 2400/2133MHz dual-channel DDR4 SO-DIMM, 4GB pre-installed (system max. 32GB)
	Storage	1 x 2.5" Accessible SATA HDD bay 2 x 2280 M key (PCIe x1/SATA) with RAID	1 x 2.5" Accessible SATA HDD bay 2 x 2280 M key (PCIe x1/SATA) with RAID
	Audio	2 x 2W speaker	2 x 2W speaker
	Camera & Microphone	5-megapixel CMOS front-facing camera with auto-focus and digital microphone	5-megapixel CMOS front-facing camera with auto-focus and digital microphone
	I/O Port	Bottom 1 x DC jack 1 x Digital mic 2 x HDMI output 2 x GbE LAN port 2 x RS-232/422/485 4 x USB 3.2 Gen 1 (5Gb/s) port	Side 1 x Mic in 1 x Audio out 2 x USB 2.0 port
	OSD Function	1 x System on/off 1 x Volume up 1 x Volume down	1 x Brightness up 1 x Brightness down 1 x LCD on/off and touch lock for cleaning
	Expansion	1 x Full-size/half-size PCIe Mini (PCIe+USB)	1 x Full-size/half-size PCIe Mini (PCIe+USB)
	LED	1 x RFID indicator 1 x Power indicator 3 x Battery indicator (color: blue/red)	1 x RFID indicator 1 x Power indicator 3 x Battery indicator (color: blue/red)
Wi-Fi & Bluetooth	IEEE 802.11 a/b/g/n/ac 2T2R module with BT V4.2 (M.2 2230 A-E key)	IEEE 802.11 a/b/g/n/ac 2T2R module with BT V4.2 (M.2 2230 A-E key)	
Physical	Construction Material	ABS+PC plastic with anti-bacterial material	ABS+PC plastic with anti-bacterial material
	Mounting	Wall, Stand and Arm VESA 75/100	Wall, Stand and Arm VESA 75/100
	Weight (Net / Gross)	7.07 kg without batteries / 8.43 kg with 3 batteries	8.18 kg without batteries / 9.53 kg with 3 batteries
	Dimensions (LxWxH)	567 x 370.6 x 63.9 mm	594.6 x 379.6 x 71 mm
Environment	Operating Temperature	0°C ~ 40°C	0°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)
	Vibration	1G	1G
	Shock	Operating shock: 5G peak acceleration (11ms duration) Non-operating shock: 10G peak acceleration (11ms duration)	Operating shock: 5G peak acceleration (11ms duration) Non-operating shock: 10G peak acceleration (11ms duration)
	IP Level	Front: IP65, Back: IP32	Front: IP65, Back: IP32
	Thermal	Fanless	Fanless
Power	Power Input	19V DC input	19V DC input
	Power Adapter	150W medical power adapter	150W medical power adapter
	Battery	3 slots for Li-ion battery pack	3 slots for Li-ion battery pack
Certification	EMC & Safety	CE, FCC Class B Part 18 IEC 60601-1-2: 2014 (Edition 4.0) IEC 60601-1:2005+AMD1:2012 (Edition 3.1)	CE, FCC Class B Part 18 IEC 60601-1-2: 2014 (Edition 4.0) IEC 60601-1:2005+AMD1:2012 (Edition 3.1)

# » POC Series



Model		POC-17C-ULT3	POC-W24C-ULT3
LCD Specifications	LCD Size	17" (5:4)	24"
	Max. Resolution (W / H)	1280 x 1024	1920 x 1080
	Brightness (cd/m <sup>2</sup> )	350	250
	Contrast Ratio	1000:1	1000:1
	LCD Color	16.7M	16.7M colors (RGB 6-bit + HI_FRC)
	Pixel Pitch (H / V)	0.264 x 0.264 mm	0.2745 x 0.2745 mm
	Viewing Angle (H / V)	170° / 160°	178° / 178°
	Backlight MTBF (hrs)	30,000 (LED backlight)	30,000 (LED backlight)
Touch	Touchscreen	Projected capacitive type with 10-point multi-touch	Projected capacitive type with 10-point multi-touch
	Touch Controller	EETI	EETI
	Surface Hardness	6H	6H
System	CPU Support	6th Gen Intel® mobile ULT Core™ i7-6600U / Core™ i5-6300U / Celeron® 3855U	6th Gen Intel® mobile ULT Core™ i7-6600U / Core™ i5-6300U / Celeron® 3855U 7th Gen Intel® mobile ULT Kaby Lake on-board SoC (By project base)
	RAM	Two 260-pin 2400/2133MHz dual-channel DDR4 SO-DIMM, 4GB pre-installed (system max.32GB)	Two 260-pin 2400/2133MHz dual-channel DDR4 SO-DIMM, 4GB pre-installed (system max. 32GB)
	Storage	1 x mSATA (E-Window) 2 x 2.5" SATA 6Gb/s accessible HDD bay with RAID 0, 1 (RAID function only supported by Core™ i5 and Core™ i7)	1 x mSATA (E-Window) 1 x 2.5" SATA 6Gb/s HDD/SDD bay
	Audio	2 x 2W speaker	2 x 3W speaker
	Camera & Microphone	2-megapixel CMOS front-facing camera with auto-focus and digital microphone	5-megapixel CMOS front-facing camera with auto-focus and digital microphone
	I/O Port	1 x HDMI output 1 x 12 ~ 28V DC jack 1 x RS-232/422/485 1 x RJ-11 for 1D/2D barcode reader	2 x GbE LAN port 4 x USB 3.2 Gen 1 (5Gb/s) port 4 x USB 2.0 port (2 on the side)
	OSD Function	1 x LCD on/off 1 x Volume up 1 x Volume down 1 x Brightness up 1 x Brightness down 1 x Touch lock button for cleaning	Combinations: 1 x Lock/Unlock OSD 1 x Power on/off
	Expansion	1 x E-Window slot (Full-size PCIe Mini slot with PCIe / mSATA / USB)	1 x PCIe Mini reserved for E-Window expansion
	LED	1 x RFID indicator	1 x RFID indicator
	Wi-Fi & Bluetooth	IEEE 802.11 a/b/g/n/ac 2T2R module with BT V4.1 (M.2 2230 A-E key)	IEEE 802.11 a/b/g/n/ac 2T2R module with BT V4.1 (M.2 2230 A-E key)
	Other Features	Auto-dimming	Yes
Light Sensor		-	Ambient light sensor for panel brightness adjustment
Physical	Construction Material	ABS+PC plastic with anti-bacterial material	ABS+PC plastic with anti-bacterial material
	Mounting	Wall, Stand and Arm VESA 100/75	Wall, Stand and Arm VESA 100/75
	Weight (Net)	6.0 kg	7.5 kg
	Dimensions (LxWxH)	435 x 376 x 64.5 mm	594.6 x 379.6 x 60.68 mm
Environment	Operating Temperature	0°C ~ 40°C	0°C ~ 40°C
	Storage Temperature	-20°C ~ 65°C	-20°C ~ 60°C
	Humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)
	Vibration	1G	1G
	Shock	Operating shock: 5G peak acceleration (11ms duration) Non-operating shock: 15G peak acceleration (11ms duration)	Operating shock: 5G peak acceleration (11ms duration) Non-operating shock: 15G peak acceleration (11ms duration)
	IP Level	Front: IP65	Front: IP65
	Thermal	Fanless	Fanless
Power	Power Input	19V DC input	19V DC input
	Power Adapter	150W medical power adapter	150W medical power adapter
Certification	EMC & Safety	CE, FCC Class B Part 18 IEC 60601-1-1: 2005+AMD1: 2012 (Edition 3.1) IEC 60601-1-2: 2014 (Edition 4.0)	CE, FCC Class B Part 18 IEC 60601-1-1: 2005+AMD1: 2012 (Edition 3.1) IEC 60601-1-2: 2014 (Edition 4.0)

# » HTB Series



Model		HTB-100-HM170	HTB-210-Q470
Chassis	Color	Silver + Grayish blue	White
	Dimension (LxWxH)	294 x 209 x 90.2 mm	140 x 306.7 x 171 mm
	Thermal	Fanless	Smart Fan
	Chassis Construction	Extruded aluminum alloy	Metal housing (SECC)
Motherboard	CPU	Intel® Core™ i5-6442EQ 6M Cache, up to 2.70 GHz, 25W Intel® Core™ i7-6822EQ 8M Cache, up to 2.80 GHz, 25W	i5-10500TE, 35W TDP (6 cores) i7-10700TE, 35W TDP (8 cores)
	Chipset	Intel® Skylake HM170	Intel® Q470
	System Memory	1 x 4 GB pre-installed (system max. 32GB) 2 x 260-pin DDR4 SO-DIMM	Two 260-pin 2666/2133MHz Dual-Channel DDR4 SODIMM ECC & non-ECC unbuffered Memory supported up to 128GB
Storage	Hard Drive	1 x 2.5" SATA 6Gb/s HDD/SSD bay	1 x 2.5" SATA HDD/SSD bay
I/O Interfaces	USB	2 x USB 2.0 4 x USB 3.2 Gen 1	1 x USB Type C (USB/DP) 2 x USB 3.2 GEN1 2 x USB 2.0 (front side)
	Ethernet	2 x RJ-45 PCIe GbE by Intel® I211 controller	2x Intel® I225-V PCIe controller (2.5GbE)
	COM port	2 x RS-232 (DB-9, with 2.5 kV isolation) 2 x RS-232/422/485 (DB-9, with 2.5 kV isolation)	1 x RS-232/422/485
	Display	1 x VGA, 1 x HDMI 2.0, 1 x iDP (optional)	1 x HDMI (up to 4096 x 2304@30Hz)
	Resolution	VGA: Up to 1920 x 1200@60Hz HDMI 2.0: Up to 4096 x 2160@60Hz	-
	Audio	Realtek ALC662, 5.1-channel High Definition Audio (HDA) 1 x Line-in, 1 x Line out, 1 x Mic-in	-
	Wireless	1 x 802.11a/b/g/n/ac 2T2R (optional)	-
	Others	-	1 x Power button 1 x Reset switch 1 x AT/ATX switch
Expansions	PCIe	1 x PCIe x16	1 x PCIe 3.0 x4 slot 1 x PCIe 3.0 x16 slot
	PCIe Mini	1 x Half-size PCIe Mini 1 x Full-size PCIe Mini (supports mSATA, colay with SATA)	-
	M.2	1 x 1630/2230/3030 A-E key (PCIe x2/USB 2.0)	1 x M.2 A key (2230) 2 x M.2 M key (2280/2242)
	Acceleration Card (Optional)	-	NVIDIA Tesla T4 (75W) Quadro P2200 (75W)
Power	Power Input	12 ~ 28V DC	19V DC
	Power Consumption	19V@4.4A (Intel® Core™ i7-6822EQ with 4 GB memory)	-
	Adapter	Adapter Power; Vin: 90 ~ 264VAC; Vout: 19VDC; 150W	100V~240V AC input, 19V DC output, 230W
Reliability	Mounting	Wall mounting	-
	Operating Temperature	0°C ~ 40°C with air flow (SSD)	0°C ~ 40°C
	Operating Humidity	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)
	Storage Temperature	-40°C ~ 70°C with air flow (SSD)	-20°C ~ 60°C
	Storage Humidity	10% ~ 90% (non-condensing)	-
	Operating Shock	Half-sine wave shock 5G; 11ms; 100 shocks per axis	Half-sine wave shock 5G, 11ms, 100 shocks per axis
	Operation Vibration	MIL-STD-810G 514.6 C-1 (with SSD)	MIL-STD-810G 514.6C-1 (with SSD)
	Weight (Net / Gross)	2.2 kg / 3.0 kg	2.8 kg
Certification	Safety / EMC	CE IEC 62304 IEC 60601-1 V3.1 IEC 60601-1-2 V4.0 ISO 14971:2007 FCC class B part 18	UL/ cUL FCC Part15B EN 62368-1 Ed.2 + RMF EN 55032 + EN 55035
OS	Supported OS	Microsoft® Windows 8, Microsoft® Embedded Standard 7	Windows®10, Linux®



\*Specifications are subject to change without prior notice.

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