

## EPC-H610-H

### Expandable Medical AI Box PC



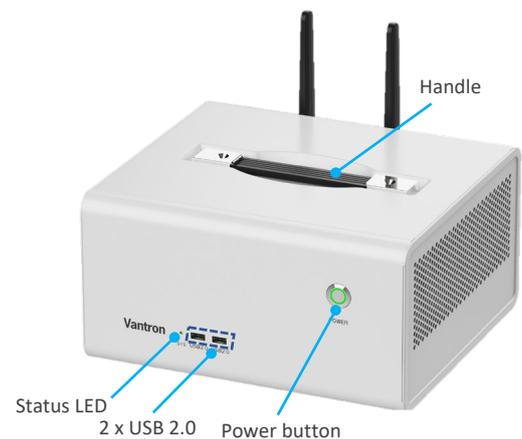
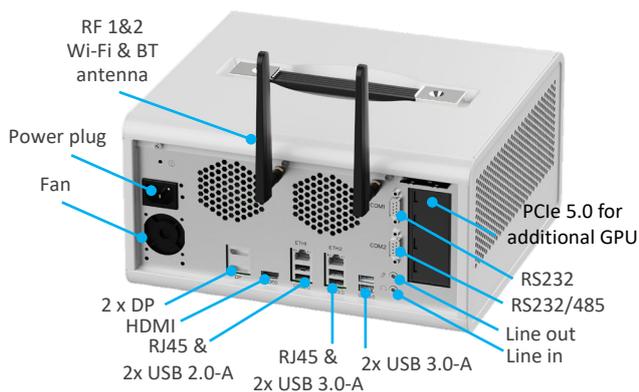
#### Product Brief

The EPC-H610-H is a medical-grade AI box PC designed specifically for healthcare applications. It supports Intel's 12<sup>th</sup>/13<sup>th</sup>/14<sup>th</sup> generation Core™ processors, providing a wide range of performance choices.

A rich set of ports allows the unit to interface with a variety of medical peripherals, while an internal PCIe for additional AI accelerator card delivers extra inference horsepower if needed. The entire system is engineered to comply with medical product design principles and industry standards. Featuring a compact form factor with an ergonomically integrated handle, the EPC-H610-H ensures effortless mobility in clinical settings. This portability, combined with robust data processing capabilities, allows the unit to serve as a reliable on-site data hub for all types of medical monitoring devices, ensuring seamless data transmission, analysis, and storage in real time.

As a crucial member of Vantron's EPC product line, the EPC-H610-H is part of a comprehensive portfolio dedicated to delivering professional, tailored solutions for the healthcare sector. Backed by Vantron's proven expertise in industrial computing and IoT technology, it not only meets the immediate operational needs of medical institutions but also scales with future technological advancements, making it the preferred choice for enterprises looking to drive innovation and achieve success in the fast-evolving healthcare industry.

#### Exterior and Features



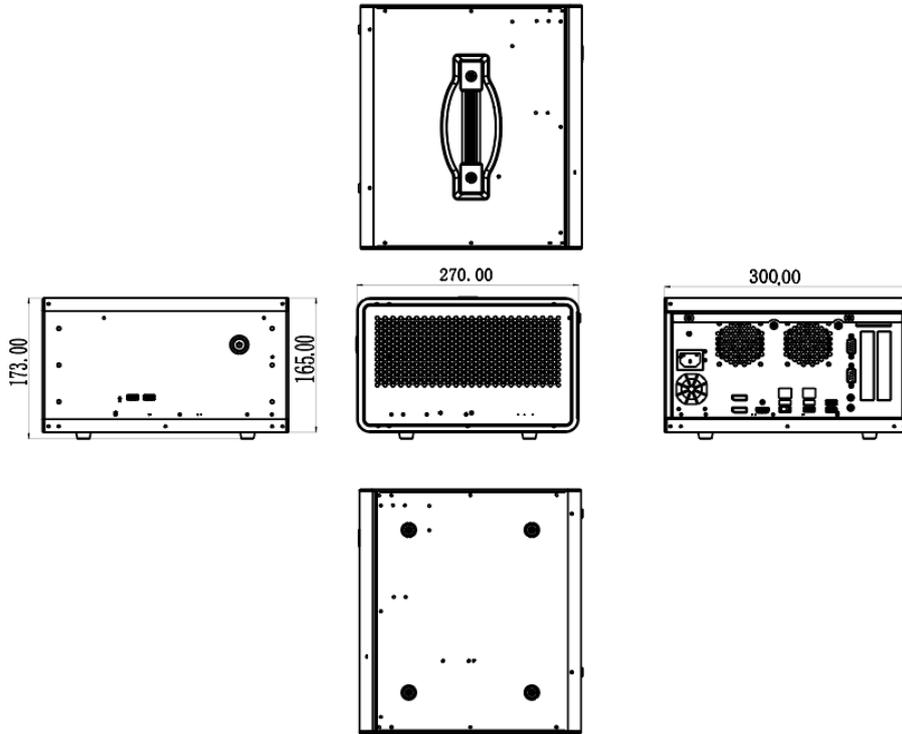
-  12th/13th/14th Gen Intel® Core™ processor
-  16GB RAM & 512GB storage, both expandable
-  3 independent displays, up to 4K video output
-  Wi-Fi/BT/GbE for network connectivity

-  PCIe 5.0 reserved for additional GPU
-  IEC 60601 compliant
-  Anti-skid feet to ensure device stability
-  Windows 10 IoT, Ubuntu 22.04

**EPC-H610-H Expandable Medical AI Box PC Datasheet**

EPC-H610-H				
<b>System</b>	CPU	Default: Intel® 14th Gen Core™ i5-14500, 14C 20T, 2.6/1.9GB (Base), 5.0/3.7GB (Turbo) Processor support: Intel® Desktop 12 <sup>th</sup> /13 <sup>th</sup> /14 <sup>th</sup> Gen Core™ processor		
	Memory	16GB, up to 96GB (2 x DDR5 SO-DIMM socket)		
	Storage	512GB, Expansion via 2 x SATA 3.0 supported		
<b>Communication</b>	Ethernet	2 x RJ45, 2.5Gbps		
	Wi-Fi & Bluetooth	Optional (IEEE 802.11 a/b/g/n/ax + BT 5.4)		
<b>Media</b>	Display	1 x HDMI 2.0b, up to 3840 x 2160 @60Hz		
		2 x DP 1.4a, up to 4096 x 2304 @60Hz		
	Audio	1 x 3.5mm Line in jack	1 x 3.5mm Line out jack	
<b>I/O</b>	USB	2 x USB 2.0 Type-A (Front)	2 x USB 2.0 Type-A (Rear)	
		4 x USB 3.0 Type-A		
	Serial port	1 x RS232, DB9	1 x RS232/485, DB9 (software switch)	
	Antenna	2 x SMA male antenna connector for Wi-Fi and Bluetooth		
<b>Expansion</b>	PCIe	1 x PCIe 5.0 x16 for GPU or AI acceleration card		
	M.2	1 x M.2 E-Key (2230, PCIe 3.0 x1 /USB 2.0 for Wi-Fi & BT expansion)		
<b>Miscellaneous</b>	RTC	Supported		
	Watchdog timer	Supported		
	Security	TPM 2.0		
<b>System Control</b>	Button	1 x Power button		
	LED indicator	1 x Status LED		
<b>Power</b>	Input	100V AC~240V AC, 50~60Hz		
	Consumption	~70W (Typical, not including additional GPU)		
<b>Software</b>	BIOS	Insyde UEFI BIOS		
	Operating system	Windows 10 IoT, Ubuntu 22.04		
<b>Mechanical</b>	Enclosure material	Sheet metal		
	Dimensions	300mm x 270mm x 173mm		
	Weight	6kg		
	Installation	Desktop (Anti-skid feet provided)		
	Shock test	IEC 60068-2-64		
	Heat dissipation	Fan		
<b>Environmental condition</b>	Temperature	Operating: 0°C~60°C	Storage: -20°C~70°C	
	Humidity	5%~95% RH (Non-condensing)		
	Certification	FCC, CE		

## Product Outlines



## Ordering Information

### Nomenclature

**EPCH610-H-[P]-[W]-[OS]**

**P (CPU):** **Null**-14<sup>th</sup>-Gen i5-14500; **13**-13<sup>th</sup>-Gen i5-13500; **12**-12<sup>th</sup>-Gen i5-12500; more variants available\*

**W (Wi-Fi & BT):** **Null**-Not provided; **WLAN**-Wi-Fi IEEE 802.11 a/b/g/n/ax + BT 5.4

**OS (Operating System):** **Null**-Windows 10 IoT; **U**-ubuntu 22.04

Example Ordering No.	CPU	Wi-Fi & Bluetooth	Operating System
EPCH610-H	14 <sup>th</sup> -Gen i5-14500	-	Windows 10 IoT
EPCH610-H-13-U	13 <sup>th</sup> -Gen i5-13500	-	Ubuntu 22.04
EPCH610-H-12-WLAN	12 <sup>th</sup> -Gen i5-12500	IEEE 802.11 a/b/g/n/ax + BT 5.4	Windows 10 IoT

\* Please contact Technical Support for additional CPU options.

Packing List	
EPC-H610-H AI box PC	1
Power cord	1

Optional Accessories	
Wi-Fi & BT module	1
Wi-Fi & BT antenna	2