



Features

- ❑ Add-on noise-cancelling mic array and speaker modules for high-quality voice capture
- ❑ GPU expansion via PCIe4 for medical edge computing
- ❑ Intel®15th Gen Arrow Lake processor
- ❑ Isolated USB/COM/LAN expansion via IET module for strict clinical requirement
- ❑ 12/24V DC output for easy powering clinical accessories
- ❑ Imprivata RFID integration for better workflow efficiency & system compliance
- ❑ CE/FCC/Medical UL certified



High Performance



GPU & IET Expansion



High-Quality Voice Capture



DC Power Output



Medical Grade Safety

Specifications

System Information

Processor	Intel® 15 th Gen Arrow Lake Processor Intel® Core Ultra 225U 1.5GHz Intel® Core Ultra 255U 2.0GHz
System Memory	Two 262-pin DDR5 5600MHz SO-DIMM socket, supports up to 96GB
I/O Chipset	IT5782VG
TPM	NuvoTon NPCT750AADYX support SPI TPM 2.0

Expansion

Expansion	1x PCIe4, 1x M.2 Key B 2280 for AI card (PCIe2) 1x M.2 Key E 2230 for WIFI 1x IET expansion
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Storage

M.2	1x M.2 Key M 2280 (PCIe4) for storage
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Display

LCD Size	21.5"
Display Type	Full HD
Resolution	1920x1080
Contrast Ratio	1000:1
Luminance	250 cd/m2
Pixel Pitch	274.5x274.5
Viewing Angle	89 (U), 89 (D), 89 (L), 89 (R)
Response Time	22ms
Backlight	LED
Touch Type	Projective capacitive multi-touch up to 10 points
Touch Light Transmission	86%
Touch Controller	USB touch (EETI EXC81H84)

I/O Ports

USB Port	4x USB 2.0 2x USB 3.2 1x USB type C (Output: USB 2.0, display, 5V/3A 15W)
LAN Port	1x RJ-45
COM Port	1x RS-232/422/485 (RJ-45 type)
HDMI	1x HDMI out
Optional I/O	Via IET: 5kv isolated USB2/COM/LAN

Audio

Standard	Speaker: 2x2W, 1x Combo Jack
Optional Module	Mic array, 10W speaker

Ethernet

LAN Chipset	1x Intel®I226LM
Ethernet Interface	10/100/1000/2500Base-Tx GbE compatible

Wireless Communication

Bluetooth/WLAN	Optional BT/Wi-Fi module
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Data Collection

RFID	Optional Imprivata RFID
Camera	Optional 5.0MAF camera

Power

Power Mode	AT/ATX (ATX is default setting)
DC Input	+24V
DC Input Connector	Lockable DC Jack
Adapter	Input: 100~240Vac/50~60Hz; Output: 180W 24V/5A medical power adapter
DC Power Output	12/24V DC, 48W
Battery	Optional built-in battery

Software Support

OS	Win10/ Win11/ Linux
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Certification

Certification Information	CE : IEC/EN60602-1 (Safety), IEC/EN60601-1-2 (EMC) FCC : Part 15 Class B UL60601-1
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Mechanical & Environmental

Dimension (W x L x H)	TBD
Weight	8 kg
Construction - Front	White plastic
Construction - Rear	White plastic
Finishing	Anti-microbial
Operating Temp.	0°C ~40°C (32°F ~104°F)
Operating Humidity	40°C @ 90% relative humidity, non-condensing
Storage Temp.	-20°C ~60°C (-4°F ~140°F)
Vibration Test	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 30min/axis
Shock Test	With CF/SSD : 10Grms, IEC 60068-2-27, half sine, 11ms
IP Rating	Front IP65 ; back: IP54

Ordering Information

P/N	Touch Type	Processor	Memory	Storage	Panel Size	Resolution	Brightness	I/O Ports (COM/USB/LAN)	Display Output	Power Input	Working Temp.
HID-2146-225-A1R	PCAP	Core Ultra 5 225U	8GB	N/A	21.5"	1920x1080	250cd/m ²	1 COM/7 USB/ 1 LAN	USB Type C & HDMI	+24V	0°C ~40°C (32°F ~104°F)
HID-2146-255-A1R	PCAP	Core Ultra 7 255U	8GB	N/A	21.5"	1920x1080	250cd/m ²	1 COM/7 USB/ 1 LAN	USB Type C & HDMI	+24V	0°C ~40°C (32°F ~104°F)

Packing List

Item	Quantity
HID-2146 Medical Panel PC	1
180W Medical Power Adapter	1

Optional Items

Items
Noise-cancelling Mic Array
10W Speaker Module
Imprivata RFID Module
Barcode Scanner
5.0M AF Camera
BT/WIFI Module

I/O Overview

