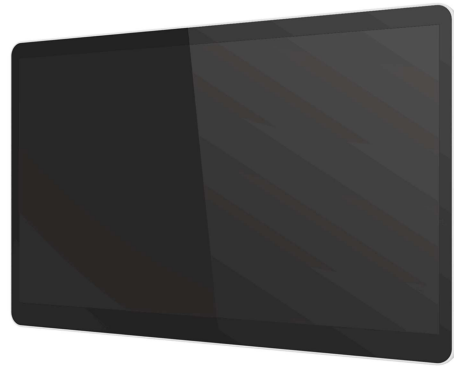


# HID-2146

## 21.5" Arrow Lake Medical Panel PC



### Product Features

- 21.5" Full HD PCAP touch
- 1 COM, 1 LAN, 1 HDMI, 2 x USB 3.2, 4 x USB 2.0, 1 USB Type C
- 1 x 12V/24V DC output
- 1 x PCI Express [x4] expansion
- Optional capture card, AI card, GPU card, Camera, Noise Cancelling Mic, Backup Battery, Sound Bar integration
- Intel Arrow Lake U Processor
- Optional 5KV isolation 2 USB 2.0, 1 LAN, 1 COM by IET module
- 1x M.2 Type B 2280, 2 x M.2 Type M 2280 for storage, 1 x M.2 Type E 2230 for WIFI
- Imprivata RFID Integration
- Front IP65

### Specification

System Information	
SBC	HID-2146 Mother Board
Processor	Intel® Arrow Lake U Processors (15W) Intel® Core™ Ultra 5 225U 1.5GHz Intel® Core™ Ultra 7 255U 2.0GHz
System Memory	Two 262-pin DDR5 up to 5600MHz SO-DIMM socket, supports up to 96GB Max
I/O Chipset	IT5782VG
Watchdog Timer	H/W reset, 1sec. – 65535sec./min.1sec. or 1min. step
H/W Status Monitor	CPU & system temperature monitoring and Voltages monitoring
TPM	NuvoTon NPCT750AADYX support SPI TPM 2.0
Platform Controller Hub	Integrated in Processor (SOC)

## Expansion

<b>Expansion</b>	1 x PCI Express [x4] 1 x M.2 Key B 2280 for AI card (PCIe x 2) 1 x M.2 Key E 2230 support Wi-Fi module 2 x M.2 Key M 2280 (PCIe x4) for storage
------------------	--

## Storage

<b>Other Storage Device</b>	2 x M.2 Key M 2280 (PCIe x4) slot for storage
-----------------------------	---

## Audio

<b>Speaker Output</b>	2 x 2W
-----------------------	--------

## Ethernet

<b>LAN Chipset</b>	1 x Intel® I226LM
<b>Ethernet Interface</b>	10/100/1000/2500 Base-Tx GbE compatible
<b>LAN Port</b>	1 x RJ-45

## Power Requirement

<b>DC Input</b>	+24V
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>DC Input Connector</b>	Lockable DC Jack

## Software Support

<b>OS</b>	Win11/ Linux
-----------	--------------

## Certification

<b>Certification Information</b>	CE (MDR): IEC/EN 60601-1 (Safety), IEC/EN 60601-1-2 (EMC) FCC: Part 15 Class B UL / cUL: IEC/EN/ANSI/AAMI 60601-1 CB Scheme: IEC/EN 62368-1 CCC
----------------------------------	---

## External I/O

<b>USB Port</b>	2 x USB3.2 4 x USB2.0 1 x USB Type-C (DisplayPort output/PD output 5V/3A, 15W/No PD input)
<b>COM Port</b>	1 x RS-232/422/485
<b>Audio Port</b>	Combo jack
<b>LAN Port</b>	1 x Intel® I226LM
<b>HDMI</b>	1 x HDMI 2.0

## Panel

LCD Size	21.5"
Resolution	1920 x 1080
Luminance	250 cd/m2
Display Type	Full HD
Pixel pitch	274.5 x 274.5
Contrast ratio	1000
Response time	22 ms
Viewing angle	89(U), 89(D), 89(L), 89(R)
Touch Type	Projective capacitive multi-touch up to 10 points
Touch Controller	USB touch (EETI EXC81H84)
Touch Light Transmission	86%
Backlight	LED

## DC In / Out Characteristics

Output Voltage Range	12V/24V
----------------------	---------

## Mechanical &amp; Environmental

Operating Temp.	0°C ~ 40°C (32°F ~ 104°F)
Storage Temp.	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	40°C @ 95% relative humidity, non-condensing
Dimension (W x L x H)	520 x 321 x 55 mm
Weight	5.4 kg
IP Rating	Front IP65
Construction - Front	Plastic
Construction - Rear	Plastic
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
System Fan	Yes
Finishing	Anti-microbial

## Component

**Adapter** Medical grade  
Input: 100-240V~, 2.8-0.8A, 50-60Hz  
Output: 24V 7.5A 180W

## Packing List

**Packing List** 1 x HID-2146 Medical panel PC  
1 x Medical power adapter

## Ordering Information

**Ordering Information** HID-2146-B1-22-A1R  
21.5" Arrow Lake Medical Multi-Touch Panel PC, Intel Core Ultra 5 225U/8GB  
Memory/USBC/HDMI/NFC/DC Out/6USB/LAN/COM/SPK/180W Medical adapter

HID-2146-B1-25-A1R  
21.5" Arrow Lake Medical Multi-Touch Panel PC, Intel Core Ultra 7 255U/8GB  
Memory/USBC/HDMI/NFC/DC Out/6USB/LAN/COM/SPK/180W Medical adapter

Power Cord:  
E1702031000R EU Power Cord  
E1702031833R US Power Cord  
E170203183CR JP Power Cord  
E170P060380R UK Power Cord  
E1702031831R AU Power Cord  
E170P060391R CN Power Cord

---