HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-22AWHD-J6412-H-2LAN





LCD requires 12VDC power supply (included), Separate Computer input is wide voltage input

Type:

- Fanless Panel PC
- **Screen:**
  - 21.5" Multi-Touch Projected Capacitive, Native Resolution: 1920 x 1080, Front Panel Rating: Not Rated
- **Mounting:** Suitable for Mounting in Cut-Out

Motherboard:

- Featuring Intel Celeron SoC and Intel Celeron J6412 Elkhart Lake Platform (Quad Core 2.0GHz/10W, Turbo 2.6GHz)
- **Long Production Cycle Motherboard (Through Q1 2036)**
- **LAN:** 2x Ports (2.5GbE (10/100/1000/2500))
- **WiFi:** Wireless AC
- **Video:** 1x DisplayPort + HDMI
- **Audio:** Realtek ALC888S HD Audio
- **Ports:**
  1x USB 2.0 Port(1 Front)
  1x USB 3.2 Gen 1 Port(1 Front)
  1x USB 3.2 Gen 2 Port (1 Rear)
  See specifications for more ports
- **Operating Temperature:** -20ºC to 60ºC (-4ºF to 140ºF)

Configuration summary:

- **Memory:** 8GB DDR4 3200MHz SODIMM RAM

- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** Adapter : AC_90~240V / DC_12V/40W
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

- Motherboard Type: NUC (101x101 mm)
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2036
- Fanless

Supported CPU

- Number of Processors: 1
- Processor Type: Embedded CPUs (ultra-low power, soldered down)
- Embedded CPU: Intel Celeron J6412 Elkhart Lake Platform (Quad Core 2.0GHz/10W, Turbo 2.6GHz)

Chipset

- Chipset: Intel Celeron SoC

Memory

- Memory Type: SO DIMM DDR4 3200MHz
- Memory Type: Non-ECC
- DIMMS: 1
- Maximum Memory: 32GB

On Board Audio

- Audio Type: Realtek ALC888S HD Audio

On Board Video

- Video Chipset: Intel UHD Graphics for 10th Gen Intel Processors
- Video on IO: 1x DisplayPort + HDMI
- Display Port Out: 1
- HDMI Out: 2

LAN

- LAN Ports: 2
- LAN Type and IPMI: 2.5GbE (10/100/1000/2500)
- LAN Chipset: Intel I225-V 2.5GbE Ethernet
- Second LAN Chipset: Intel i225-V 2.5GbE Ethernet

Display Specifications

Display

- Screen Size (inches): 21.5
- Touch Type: Multi-Touch Projected Capacitive
- Aspect Ratio: 16 : 9
- Native Display Resolution: 1920 x 1080
- Brightness (nits): 250
- Screen Refresh Rate: 60Hz
- Display Area (H): 476.06mm
- Display Area (V): 267.79mm
- Aspect Ratio: 16 : 9
- DisplayColors: 16.7 M
- Contrast Ratio: 3000:1
- Backlight: LED
- Viewing Angle(U) : 178
- Viewing Angle(D) : 178
- Viewing Angle(L) : 178
- Viewing Angle(R) : 178

Connectivity

- HDMI In: 1
- Display Port In: 1
- Touchscreen Interface USB Port (Front): 1

Mounting Options

- Mounting Options: VESA 75mm x 75mm, VESA 100mm x 100mm, Other options sold separately
- Suggested Cut-Out Dimension (Width):
- Suggested Cut-Out Dimension (Height):

Physical

- Width:
- Height:
- Depth:
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 12lbs

- Wireless LAN: Wireless AC

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.

Rear IO

- USB 3.2 Gen 2 Type A Ports (on IO): 1

Headers

- USB 2.0 Ports (on Headers): 1
- USB 3.2 Gen 1 Ports (on Headers): 1
- FAN Connectors: 1

Management Features

- TPM Support: TPM via Intel Platform Trust Technology

Environmental

- Operating Temperature: -20ºC to 60ºC (-4ºF to 140ºF)
- High Humidity: 95%
- Low Humidity: 10%

Operating System Support

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 IoT 2021 LTSC Entry
- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 11 IoT 2024 LTSC Entry
- LINUX Ubuntu Desktop

Compliance of Component

- UL
- CE
- RoHS
- FCC
- CB
- CCC

Warranty of Component

- Motherboard Warranty: 1 Year
- Shipping Weight: 18lbs

Environmental

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- High Humidity: 90%
- Low Humidity: 5%
- Storage Temp (High): 60C
- Storage Temp (Low): -20C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 5%

Power

- Power Supply: AC 100~240V/12V DC
- Power Consumption (on): 18Watts

Compliance of Component

- CCC

Warranty

- Warranty: 1 year

Other

- Built-in Chassis Power Supply: Wide Voltage 9-36VDC Input
- Features:

21.5" Open Frame Widescreen

Display Specifications

- Display
- Screen Size: 21.5"
- Touch Type: Multi-Touch Projected Capacitive
- Front Panel Rating: Not Rated
- Color: Black
- Native Display Resolution: 1920 x 1080
- Brightness (nits): 250
- Aspect Ratio: 16 : 9
- DisplayColors: 16.7 M
- Contrast Ratio: 3000:1
- Backlight: LED
- Wide Voltage 9-36VDC Power input

- Connectivity
- Displayport: 1
- HDMI In: 1

Chassis Specifications:

General

- Form Factor: NUC Box
- Front Facing I/O
- Color: Black
- Material: Steel & Plastic
- Material Thickness: 1mm

Front Ports

- USB 2.0 Ports (Front): 1
- USB 3.2 Ports (Front): 1
- USB 3.2 Gen 2 Type-C (Front): 2
- Front Audio Ports: 1

Physical

- Depth: 109.20mm
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Width: 125mm
- Height: 44.50mm
- Shipping Box - Depth:
- Shipping Box - Width:
- Shipping Box - Height:
- Shipping Weight: 2lbs

Power

- Built-in Chassis Power Supply: Adapter : AC_90~240V / DC_12V/40W