

HMI Panel PC Panel PC

Configuration Number: BASE CONFIG SL-PPC-22AWHD-LLH610I-S19-NF





FANLESS High Performance Panel PC

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 H610 Chipset and 12th Gen Core, Pentium Gold and Celeron (LGA1700) processor
- Long Production Cycle Motherboard (Through Q2 2030)
- Low Profile Slots:
 - 1 PCle x16
- LAN: 2x Ports (1GbE + 1GbE)
- Video: 1x DisplayPort, 2x HDMI
- Audio: Realtek ALC897
- Ports:
 - 2x USB 2.0 Ports (2 Front) 4x USB 3.2 Gen 1 Ports (4 Rear) 2x COM Port (RS232/422/485 Rear)
- See specifications for more ports
 Operating Temperature: 0°C to 60°C
- (32°F to 140°F)

Configuration summary:

 Processor: G7400 - 3.70GHz Intel Pentium Gold CPU - Dual Core, 6MB Cache, UHD Graphics 710 (Base 46W) (ERM)

- Memory: 8GB DDR4 3200MHz SODIMM RAM
- Hard Drive: 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- Power Supply: 160w output, 12v input DC-DC Power Supply - AC Adapter Included
- Operating System: Not Included -Warranty: One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

Motherboard Type: MiniITX

Fanless

• Long Production Cycle

Long Life: YESEOL Date: Q2 2030

Supported CPU

• Number of Processors: 1

 Processor Type: 12th Gen Core, Pentium Gold and Celeron (LGA1700)

Chipset

• Chipset: Intel H610 Chipset

Memory

• Memory Type: SO DIMM DDR4 2400MHz

Memory Type: Non-ECC

• DIMMS: 2

• Maximum Memory: 64GB

On Board Audio

• Audio Type: Realtek ALC897

On Board Video

 Video Chipset: Supported by CPU - depends on CPU selected

• Video on IO: 1x DisplayPort, 2x HDMI

Display Port Out: 1

• HDMI Out: 2

LAN

• LAN Ports: 2

LAN Type: 1GbE + 1GbELAN Chipset: Intel i219V

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: 16:9DisplayColors: 16.7 MContrast 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:

- Second LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

Drive Interface

• SATA III Ports (6GB): 3

Expansion Slots

PCI Express x16 Slots On Motherboard: 1

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCle Signal
- 2242 22 mm x 42 mm.
- 2260 22 mm x 60 mm.
- 2280 22 mm x 80 mm.

Rear IO

- USB 3.2 Gen 1 Type A Ports (on IO): 4
- Serial 232/422/485 Ports: 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- FAN Connectors: 2
- · Audio on Headers
- LVDS
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 0° C to 60° C (32°F to 140°F)
- High Humidity: 95%
- Low Humidity: 10%

Operating System Support

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

Compliance of Component

- CE
- FCC

Other Features

- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 12lbs
- 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): 250Aspect Ratio: 16: 9
- DisplayColors: 16.7 MContrast Ratio: 3000:1
- Backlight: LED
- Wide Voltage 9-36VDC Power input
- Connectivity
- Displayport: 1
- HDMI In: 1

• Features:

1x PCIe 4.0 x16 slot

1x M.2 Socket 3 with keiy M, type 2242/2260/2280 (SATA/PCIe x4 mode)

1x M.2 Socket 1 with Key E, type 2230 for WIFI/BT device (PCIe & CNVi)

* Access to PCI Express slot requires expansion slot and a riser in some chassis models. Please check Chassis Specification section for more information.

If you have any questions, please discuss with our Sales Engineers

• Motherboard Warranty: 1 Year

Chassis Specifications:

General

• Form Factor: Embedded PC

Color: Black

Material: Metal/SteelMaterial Thickness: 1mm

• Motherboard Compatibility: Mini ITX

Expansion

Low Profile Slots: 1
Max Card Depth: 7.5""
Internal 2.5" Bays: 2
Serial Port Punchouts: 2
Parallel Port Punchouts: 1

Front Ports

• USB 2.0 Ports (Front): 2

Cooling System

• Maximum Fan Count: 2

Physical

• Depth: 8.30"

• Depth (Inches): 8.27

Width: 8"Height: 3.50"

Shipping Box - Depth: 150mm
Shipping Box - Width: 380mm
Shipping Box - Height: 27mm
Shipping Weight: 13lbs

Other Features

• Chassis Warranty: 1 Year

Power

• Built-in Chassis Power Supply: Power Adapter Included



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