

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-22AWHD-LL6412G-S19



(Not all images available on web site)

### Completely Fanless,

#### 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 2028)**
- **Low Profile Slots:**
  - 1 - PCIe x1
- **LAN:** 2x Ports (GB (10/100/1000))
- **Video:** VGA + HDMI
- **Audio:** Realtek ALC897
- **Ports:**
  - 6x USB 2.0 Ports ( 2 Front, 2 Rear, 2 Internal Headers )
  - 2x USB 3.2 Gen 1 Ports ( 2 Rear )
  - 6x COM Ports (4 RS232 Internal Headers, 2 RS232/422/485 Rear)
  - See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)

#### Configuration summary:

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

- **Hard Drive:** 250GB Solid State Drive - M.2 2280 Internal - SATA (SATA/600)
- **Power Supply:** Power 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: YES
- EOL Date: Q1 2028

#### 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: 2
- Maximum Memory: 32GB

#### On Board Audio

- Audio Type: Realtek ALC897

#### On Board Video

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

#### LAN

- LAN Ports: 2
- LAN Type: GB (10/100/1000)
- LAN Chipset: Realtek RTL8111H
- Second LAN Chipset: Realtek RTL8111H

### 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

- VGA Port In: 1
- DVI-D In: 1
- HDMI 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: No Integrated WLAN

#### Drive Interface

- SATA III Ports (6GB): 5

#### Expansion Slots

- PCI Express x1 Slots On Motherboard: 1

#### M.2 Slot Specs

- M.2 Slot #1 Specs
- M.2 SATA SSD
- 2280 - 22 mm x 80 mm.
- M.2 E-Key Slot
- PCIe Signal
- USB

#### Rear IO

- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 2
- Serial 232/422/485 Ports: 2
- Audio on IO

#### Headers

- USB 2.0 Ports (on Headers): 4
- Serial (via Headers): 4
- FAN Connectors: 2
- Audio on Headers
- LVDS
- TPM Support: 2.0 Module Included
- DC Power: DC Jack (+12V/+19V~+24VDC)

#### Environmental

- Operating Temperature: 0°C to 60°C (32°F to 140°F )
- High Humidity: 90%
- Low Humidity: 0%

#### Operating System Support

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

#### Compliance of Component

- CE
- RoHS
- FCC

#### Other Features

- Features:  
Expansion Slots

1 x PCIe x1 (Gen 3x1)

1 x 2280 M.2 M-Key (SATA 6Gb/s)

- Shipping Weight: 18lbs

#### Environmental

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- Low Operating Temp: 00
- 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

- 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

- Connectivity
- VGA Port In: 1
- DVI-D In: 1
- HDMI In: 1

1 x 2230 M.2 E-Key

TPM

Onboard TPM 2.0 security chip

Infineon SLB9670VQ2.0

Storage

5 x SATA 6Gb/s Ports

(4 x Asmedia ASM1064)

(1 x supports SATA DOM)

- Motherboard Warranty: 1 Year

## Chassis Specifications:

### General

- Form Factor: Embedded PC
- Color: Black
- Material: Metal/Steel
- Material 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 Port (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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