HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-22AWHD-LLH310TN-S17

21.5" Open Frame Widescreen

Type:

- 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 H310 Chipset and 8th and 9th Gen Core i7/i5/i3 Processors, LGA1151 processor
- **Long Production Cycle Motherboard (Through Q1 2025)**
- **No Available Slots**
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** 1x HDMI, 1x DisplayPort, 1x Optional VGA
- **Audio:** Realtek ALC887 codec
- **Ports:**
  4x USB 2.0 Ports (2 Front, 2 Rear)
  4x USB 3.2 Gen 1 Ports (2 Rear, 2 Internal Headers)
  4x COM Ports (2 RS232 Internal Headers, 2 RS232/422/485 Internal Headers)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 50ºC (32ºF to 122ºF)

Configuration summary:

- **Processor:** G4900 - 3.1GHz Intel Celeron CPU - Dual Core, 2MB Cache, UHD

Graphics 610 (54W) (ERM) - or Better
- **Memory:** 8GB DDR4 2666MHz SODIMM RAM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** AC/DC Power Adapter Included
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model
- Motherboard Type: MiniITX
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2025

Supported CPU
- Number of Processors: 1
- Processor Type: 8th and 9th Gen Core i7/i5/i3 Processors, LGA1151

Chipset
- Chipset: Intel H310 Chipset

Memory
- Memory Type: SO DIMM DDR4 2133MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 32GB

On Board Audio
- Audio Type: Realtek ALC887 codec

On Board Video
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x HDMI, 1x DisplayPort, 1x Optional VGA
- Display Port Out: 1
- HDMI Out: 1

LAN
- LAN Ports: 2
- LAN Type and IPMI: 1GbE + 1GbE
- LAN Chipset: Intel GbE LAN chip

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:

- Second LAN Chipset: Intel GbE LAN chip
- Wireless LAN: No Integrated WLAN

Drive Interface
- SATA III Ports (6GB): 2

Expansion Slots
- PCI Express x4 Slots On Motherboard: 1

Mini PCIe
- mini PCIe
- mSATA
- half and/or full size mini PCIe card: full size

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

Rear IO
- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 2
- Audio on IO

Headers
- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 2
- Serial 232/422/485 Ports: 2
- FAN Connectors: 2
- Audio on Headers
- Chassis Intrusion
- DC Power: Supports 12V/19V/24V power adapter of up to 150w

Environmental
- Operating Temperature: 0ºC to 50ºC (32ºF to 122ºF)
- High Humidity: 90%
- Low Humidity: 5%

Operating System Support
- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Value
- Windows 10 IoT Ent
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- 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

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- 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

- Windows 11 Pro (64 Bit)
- Windows 11 IoT 2024 LTSC Value
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop

Compliance of Component

- UL
- CE
- RoHS
- FCC

Other Features

- Other Features:
  - 1 x PCI Express x4 slot
    (The PCI Express x4 slot conforms to PCI Express 3.0 standard.)
  - 1 x M.2 Socket 1 connector for an Intel® CNVi or a PCIe wireless module (CNVI)
  - 1x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe x2 SSD support)
  - 1 x full size Mini PCIe connector (MSATA_PCIE)
    * The MSATA_PCIE connector can also be used as an MSATA connector.
    (The Mini PCIe connector conforms to PCI Express 2.0 standard.)
- Motherboard Warranty: 1 Year

Chassis Specifications:

General

- Form Factor: Micro PC
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: Mini ITX

Expansion

- Internal 2.5" Bays: 1
- Serial Port Punchouts: 2
- Parallel Port Punchouts: 1
- Antennae Punchout: 2

Front Ports

- USB 2.0 Ports (Front): 2

Cooling System

- Maximum Fan Count: 1

Physical

- Depth: 8.27"

- Depth (Inches): 8.27
- Width: 7.60"
- Height: 2.60"
- Shipping Box - Depth: 13"
- Shipping Box - Width: 9"
- Shipping Box - Height: 5"
- Shipping Weight: 8lbs

Other Features

- Chassis Warranty: 1 Year

Power

- Built-in Chassis Power Supply: AC/DC Power Adapter Included

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