HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-24A-LLH610I-S19-NF

FANLESS High Performance Panel PC

Type:

- Fanless Panel PC
- **Screen:**
    - 24" Multi-Touch Projected Capacitive, Native Resolution: 1920 x 1080, Front Panel Rating: IP65 / NEMA4
- **Mounting:** Bezel Mounting Hardware Included, 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 - PCIe x16
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** DisplayPort + HDMI + 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:** 0ºC to 60ºC (32ºF to 140ºF)

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:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **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: YES
- EOL 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: DisplayPort + HDMI + HDMI
- Display Port Out: 1
- HDMI Out: 2

LAN
- LAN Ports: 2
- LAN Type: 1GbE + 1GbE
- LAN Chipset: Intel i219V

Display Specifications

Display
- Screen Size (inches): 24
- Touch Type: Multi-Touch Projected Capacitive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 16 : 9
- Native Display Resolution: 1920 x 1080
- Brightness (nits): 250
- Screen Refresh Rate: 60Hz
- Display Area (H): 531.36mm
- Display Area (V): 298.89mm
- Aspect Ratio: 16 : 9
- DisplayColors: 16.2 M
- Contrast Ratio: 1000:1
- Backlight: LED
- Viewing Angle(U) : 80
- Viewing Angle(D) : 80
- Viewing Angle(L) : 85
- Viewing Angle(R) : 85

Connectivity
- VGA Port In: 1
- DVI-I In: 1
- HDMI In: 1
- S-Video: 1
- Touchscreen Interface USB Port (Front): 1

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

- 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
- PCIe 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: 0ºC to 60ºC (32ºF to 140ºF)
- 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

Physical
- Width:
- Height:
- Depth:
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 20lbs
- Shipping Weight: 50lbs

Environmental
- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 60C
- Storage Temp (Low): -10C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

Power
- Power Supply: AC 100~240V/12V DC
- Power Consumption (on): 21Watts

Compliance of Component
- CE
- RoHS
- FCC
- CCC

Warranty
- Warranty: 1 year

Other
- Features:

Industrial Display

- Screen Size: 24"
- Touch Type: Multi-Touch Projected Capacitive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1920 x 1080
- Brightness (nits): 250

- 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/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 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