HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-12A-AH370I-S19

Type:

- Panel PC
- **Screen:**
    - 12" 5-Wire Resistive, Native Resolution: 800 x 600, Front Panel Rating: IP65 / NEMA4
- **Mounting:** Bezel Mounting Hardware Included, Suitable for Mounting in Cut-Out

Motherboard:

- Featuring Intel H370 Chipset and 8th and 9th Gen Core i7/i5/i3 (LGA1151) processor
- **Low Profile Slots:**
  1 - PCIe x16
- **LAN:** 2x Ports (GB (10/100/1000))
- **WiFi:** Integrated Intel 802.11ac WiFi Module + Bluetooth 4.2 - Removable Under Networking Section
- **RAID:** 0,1
- **Video:** Dual HDMI + DisplayPort
- **Audio:** 7.1+2 Channel HD Audio by Realtek ALC892
- **Ports:**
  4x USB 2.0 Ports (2 Front, 2 Rear)
  4x USB 3.2 Gen 1 Ports (2 Rear, 2 Internal Headers)
  4x USB 3.2 Gen 2 Ports (4 Rear)
  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 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

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

Chipset
- Chipset: Intel H370 Chipset

Memory
- Memory Type: DDR4 2400MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 32GB

On Board Audio
- Audio Type: 7.1+2 Channel HD Audio by Realtek ALC892

On Board Video
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: Dual HDMI + DisplayPort
- Display Port Out: 1
- HDMI Out: 2

LAN
- LAN Ports: 2
- LAN Type: GB (10/100/1000)
- LAN Chipset: Intel i219V
- Second LAN Chipset: Intel i211AT
- Wireless LAN: Integrated Intel 802.11ac WiFi Module + Bluetooth 4.2 - Removable Under Networking Section

Display Specifications

Display
- Screen Size (inches): 12
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 4 : 3
- Native Display Resolution: 800 x 600
- Brightness (nits): 400
- Screen Refresh Rate: 60Hz
- Display Area (H): 246mm
- Display Area (V): 184.50mm
- Aspect Ratio: 4 : 3
- DisplayColors: 16.2 M
- Contrast Ratio: 600:1
- Backlight: LED
- Viewing Angle(U) : 65
- Viewing Angle(D) : 75
- Viewing Angle(L) : 80
- Viewing Angle(R) : 80

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

Mounting Options
- Mounting Options: Bezel Mounting Hardware Included, Other options sold separately
- Suggested Cut-Out Dimension (Width): Click Available Downloads Tab > Mechanical Drawings
- Suggested Cut-Out Dimension (Height): Click Available Downloads Tab > Mechanical Drawings

Physical

Drive Interface

- SATA III Ports (6GB): 6
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

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
- 2230 - 22 mm x 30 mm.
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.

Rear IO

- PS/2 Combo (Mouse/Keyboard)
- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 2
- USB 3.2 Gen 2 Type A Ports (on IO): 4
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 2
- FAN Connectors: 3
- Chassis Intrusion
- TPM Support: Via 2.0 Header

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)
- Windows 10 IoT Value
- Windows 10 IoT Ent
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- LINUX Ubuntu Desktop

Compliance of Component

- UL
- CE
- RoHS

- Width: Click Available Downloads Tab > Mechanical Drawings
- Height: Click Available Downloads Tab > Mechanical Drawings
- Depth: Click Available Downloads Tab > Mechanical Drawings
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 9lbs
- Shipping Weight: 25lbs

Environmental

- MTBF: 50000hours
- Maximum Operating Temperature: 80C
- Low Operating Temp: 00
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 80C
- Storage Temp (Low): -30C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

Power

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

Compliance of Component

- CE
- CCC

Warranty

- Warranty: 1 year

Other

- Features:

Industrial Display

- Screen Size: 12"
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 800 x 600
- Brightness (nits): 400

- FCC

Other Features

- Other Features:

1 x PCI Express 3.0 x16 Slot (PCIE1: x16 mode)*

1 x Vertical M.2 Socket (Key E) with the bundled WiFi-802.11ac module (on the rear I/O)

1 x Ultra M.2 Socket, supports M Key type 2230/2242/2260/2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen3 x4 (32 Gb/s)**

*If M2_1 is occupied by a SATA-type M.2 device, SATA3_1 will be disabled.

**Supports

Intel® Optane™ Technology
Supports NVMe SSD as boot disks
Supports ASRock U.2 Kit

*To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.

* 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 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