

HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-22A-LLQ87E-S17-1-NF



(Full size images available on web site)

Type:

- Panel PC
- **Screen:**
 - 22" InfraRed, Native Resolution: 1680 x 1050, Front Panel Rating: IP65 / NEMA4
- **Mounting:** Bezel Mounting Hardware Included, Suitable for Mounting in Cut-Out

Motherboard:

- Featuring Intel Q87 Chipset and 4th Gen Core i3/i5/i7 (LGA1150, 'Haswell') processor
- **Long Production Cycle Motherboard (Through Q2 2020)**
- **No Available Slots**
- **LAN:** 2x GB (10/100/1000)
- **Video:** VGA + HDMI + DVI-D
- **Audio:** 5.1 channel by Realtek ALC662
- **Ports:**
 - 8x USB 2.0 Ports (2 Front, 4 Rear, 2 via internal headers)
 - 4x USB 3.0 Ports (2 Rear, 2 via internal headers)
 - 4x COM Ports (1 Rear, 1 on Headers, 1 RS232/422/485 Rear, 1 RS232/422/485 on Headers)

See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)

Also Included:

- **Processor:** G1820TE - 2.2GHz Intel Celeron Dual Core CPU - 2 MB Cache, HD Graphics (35W) (ERM)
- **Memory:** 4GB DDR3 1600MHz SODIMM

RAM 1.35V

- **Hard Drive:** 250GB SSD SATA 6.0Gb/s, 500/300MB/s read/write (or greater)
- **Power Supply:** 90w 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
- Long Production Cycle
- Long Life: YES
- EOL Date: Q2 2020

Supported CPU

- Number of Processors: 1
- Processor Type: 4th Gen Core i3/i5/i7 (LGA1150, 'Haswell')

Chipset

- Chipset: Intel Q87 Chipset

Memory

- Memory Type: SO DIMM DDR3 1600MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 16GB

On Board Audio

- Audio Type: 5.1 channel by Realtek ALC662

On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: VGA + HDMI + DVI-D
- VGA Port Out: 1
- DVI-D Out: 1
- HDMI Out: 1

LAN

- LAN Ports: 2
- LAN Type: GB (10/100/1000)
- LAN Chipset: Intel i217LM
- Second LAN Chipset: Intel i211AT

Display Specifications

Display

- Screen Size (inches): 22
- Touch Type: InfraRed
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 16 : 10
- Native Display Resolution: 1680 x 1050
- Brightness (nits): 300
- Screen Refresh Rate: 60Hz
- Display Area (H): 473.76mm
- Display Area (V): 296.10mm
- Aspect Ratio: 16 : 10
- DisplayColors: 16.7 M
- Contrast Ratio: 1000:1
- Backlight: LED
- Viewing Angle(U) : 85
- Viewing Angle(D) : 85
- Viewing Angle(L) : 80
- Viewing Angle(R) : 80

Connectivity

- VGA Port In: 1
- DVI-I In: 1
- HDMI In: 1

Mounting Options

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

- Wireless LAN: No Integrated WLAN

Drive Interface

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

Expansion Slots

- PCI Express x16 Slots On Motherboard: 1

mini PCIe

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

Rear IO

- USB 2.0 Ports (on IO): 4
- USB 3.0 Ports (on IO): 2
- Serial (Rear IO): 1
- Serial 232/422/485 Ports: 1
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 4
- USB 3.0 Ports (on Headers): 2
- Serial (via Headers): 1
- Serial 232/422/485 Ports: 1
- FAN Connectors: 3
- Audio on Headers
- LVDS
- PS/2 Combo (Mouse/Keyboard) on Headers
- Chassis Intrusion

Environmental

- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- High Humidity: 90%
- Low Humidity: 5%

Operating System Support

- Windows 7 Ultimate (64-bit)
- Windows 7 Pro (32-bit)
- Windows 7 Pro (64-bit)
- Windows 7 Pro (FES) 32-Bit
- Windows 7 Pro (FES) 64-Bit
- SL-Windows 10PRO to 7PRO 32-bit
- SL-Windows 10PRO to 7PRO 64-bit
- Windows Embedded 7 (32-Bit)
- Windows Embedded 7 (64-Bit)
- Windows 8.1 (32-bit)
- Windows 8.1 (64-bit)
- Windows 8.1 Pro (32-bit)

Physical

- Width: Click Technical Specifications Tab > Mechanical Drawings.
- Height: Click Technical Specifications Tab > Mechanical Drawings.
- Depth: Click Technical Specifications Tab > Mechanical Drawings.
- Depth (Inches): Click Technical Specifications Tab > Mechanical Drawings.
- Unboxed Weight: 20lbs
- Shipping Weight: 45lbs

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): 19Watts

Compliance of Component

- CE
- RoHS
- FCC

Warranty

- Warranty: 1 year

Other

- Features:

Industrial Display

- Screen Size: 22"
- Touch Type: InfraRed
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1680 x 1050
- Brightness (nits): 300

- Windows 8.1 Pro (64-bit)
- Windows Embedded 8 (32-bit)
- Windows Embedded 8 (64-bit)
- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (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
- Ubuntu Server Edition

Compliance of Component

- UL
- CE
- RoHS
- FCC

Other Features

- Other Features:
1x PCI Express 3.0 x16 Slot x16 Mode

* 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: 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 Port (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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