

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-22A-LLH110A-S18-NF



(Full size images available on web site)

### Type:

- Fanless 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 H110 Chipset and 7th and 6th Gen Core i7/i5/i3 (LGA1151) processor
- **Long Production Cycle Motherboard (Through Q1 2030)**
- **LAN:** 2x GB (10/100/1000)
- **Video:** VGA + DisplayPort + HDMI
- **Audio:** Intel HD Audio
- **Ports:**
  - 4x USB 2.0 Ports ( 2 Front2 via internal headers )
  - 4x USB 3.0 Ports ( 4 Rear)
  - 4x COM Ports (1 Rear, 2 on Headers, 1 RS232/422/485 Rear)
  - See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (0°F to 140°F)

### Configuration summary:

- **Processor:** i3-6100TE - 2.70GHz Intel Dual Core CPU - 4MB Cache, HD Graphics 530 (35W)
- **Memory:** 4GB DDR4 2400MHz SODIMM RAM
- **Hard Drive:** 250GB SSD SATA 6.0Gb/s, 500/300MB/s read/write (or greater)

- **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: Q1 2030

#### Supported CPU

- Number of Processors: 1
- Processor Type: 7th and 6th Gen Core i7/i5/i3 (LGA1151)

#### Chipset

- Chipset: Intel H110 Chipset

#### Memory

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

#### On Board Audio

- Audio Type: Intel HD Audio

#### On Board Video

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

#### LAN

- LAN Ports: 2
- LAN Type: GB (10/100/1000)
- LAN Chipset: Intel i219V
- Second LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

### 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
- Touchscreen Interface USB Port: 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

- Width: Click Available Downloads Tab > Mechanical Drawings
- Height: Click Available Downloads Tab >

### **Drive Interface**

- SAS 6G Ports: 4

### **mini PCIe**

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

### **Rear IO**

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

### **Headers**

- USB 2.0 Ports (on Headers): 4
- Serial (via Headers): 2
- LVDS
- TPM Support: Via 2.0 Header

### **Environmental**

- Operating Temperature: 0°C to 60°C (0°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)
- Windows 8.1 Pro (64-bit)
- Windows Embedded 8 (32-bit)
- Windows Embedded 8 (64-bit)
- Windows 10 Home (32 Bit)
- Windows 10 Home (64 Bit)
- Windows 10 Pro (32 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
- LINUX Ubuntu Workstation

### **Mechanical Drawings**

- Depth: Click Available Downloads Tab > Mechanical Drawings
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 20lbs
- Shipping Weight: 45lbs

### **Environmental**

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

- Ubuntu Server Edition

#### **Compliance of Component**

- UL
- CE
- RoHS
- FCC

#### **Other Features**

- Other Features:
  - 1 x PCIe x16 slot
  - 1 (half/full size, supports PCIe x1 and USB device)
  - 1 (full size, shared SATA and USB device)
- Motherboard Warranty: 1 Year

### Chassis Specifications:

#### **General**

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

#### **Expansion**

- Full Height Slots: 1
- Max Card Depth: 7.5"
- Internal 2.5" Bays: 2
- Serial Port Punchouts: 3
- Parallel Port Punchouts: 1
- Antennae Punchout: 2

#### **Front Ports**

- USB 2.0 Port (Front): 2

#### **Cooling System**

- Maximum Fan Count: 2

#### **Physical**

- Depth: 2.60"
- Depth (Inches): 2.6
- Width: 12.30"
- Height: 8.27"
- Shipping Box - Depth: 16"
- Shipping Box - Width: 16"
- Shipping Box - Height: 8"
- Shipping Weight: 11lbs

#### **Other Features**

- Chassis Warranty: 1 Year

**Power**

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

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