# HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
## SL-PPC-19A-N2930-J

**LCD requires 12VDC power supply (included), Separate Computer input is wide voltage input**

### Type:

- Fanless Panel PC
- **Screen:**
    - 19" 5-Wire Resistive, Native Resolution: 1280 x 1024, Front Panel Rating: IP65 / NEMA4
- **Mounting:** Bezel Mounting Hardware Included, Suitable for Mounting in Cut-Out

### Motherboard:

- Featuring Intel Celeron SoC and Intel Celeron N2930 Processor (1.83GHz Quad Core, Burst 2.16GHz) TDP 7.5W
- **Long Production Cycle Motherboard (Through Q1 2029)**
- **LAN:** 2x Ports (1GbE (10/100/1000))
- **WiFi:** Integrated Realtek 802.11 b/g/n Wireless LAN/Bluetooth 4.0 - Removable Under Networking Section
- **Video:** VGA + DVI-D
- **Audio:** Realtek ALC662 HD Audio
- **Ports:**
  5x USB 2.0 Ports ( 2 Front, 3 Rear )
  1x USB 3.2 Gen 1 Port( 1 Rear )
  4x COM Ports (2 RS232 Rear, 1 RS232 Internal Headers, 1 RS232/422/485 Internal Headers)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 40ºC (32ºF to 104ºF)

### Configuration summary:

(full size images available on web site)

- **Memory:** 4GB DDR3L 1600MHz SODIMM RAM 1.35V
- **Hard Drive:** 120GB SSD SATA 6.0Gb/s, 500/320MB/s read/write (or greater)
- **Power Supply:** +9V ~ +24V DC-in jack
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

# Technical Specifications

## MotherBoard Specifications:

**Motherboard Model**
- Motherboard Type: Proprietary
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2029
- Fanless

**Supported CPU**
- Number of Processors: 1
- Processor Type: Embedded CPUs (ultra-low power, soldered down)
- Embedded CPU: Intel Celeron N2930 Processor (1.83GHz Quad Core, Burst 2.16GHz) TDP 7.5W

**Chipset**
- Chipset: Intel Celeron SoC

**Memory**
- Memory Type: SO DIMM DDR3 1333MHz
- Memory Type: Non-ECC
- DIMMS: 1
- Maximum Memory: 8GB

**On Board Audio**
- Audio Type: Realtek ALC662 HD Audio

**On Board Video**
- Video Chipset: Intel HD Graphics
- Video on IO: VGA + DVI-D
- VGA Port Out: 1
- DVI-D Out: 1

**LAN**
- LAN Ports: 2
- LAN Type: 1GbE (10/100/1000)
- LAN Chipset: Realtek RTL8111G
- Second LAN Chipset: Realtek RTL8111G

## Display Specifications

**Display**
- Screen Size (inches): 19
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 5 : 4
- Native Display Resolution: 1280 x 1024
- Brightness (nits): 350
- Screen Refresh Rate: 60Hz
- Display Area (H): 376.32mm
- Display Area (V): 301.07mm
- Aspect Ratio: 5 : 4
- DisplayColors: 16.7 M
- Contrast Ratio: 1000:1
- Backlight: LED
- Viewing Angle(U) : 80
- Viewing Angle(D) : 80
- 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: VESA 75mm x 75mm, VESA 100mm x 100mm, 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**

- Wireless LAN: Integrated Realtek 802.11 b/g/n Wireless LAN/Bluetooth 4.0 - Removable Under Networking Section

### Drive Interface
- SATA II Ports (3GB): 1

### Expansion Slots
- mini PCIe
- mSATA
- USB and PCIe signals (Internal)
- half and/or full size mini PCIe card: full size

### M.2 Slot Specs

### Rear IO
- USB 2.0 Ports (on IO): 3
- USB 3.2 Gen 1 Type A Ports (on IO): 1
- Serial (Rear IO): 2
- Audio on IO

### Headers
- USB 2.0 Ports (on Headers): 2
- Serial (via Headers): 1
- Serial 232/422/485 Ports: 1

### Management Features
- Watch Dog

### Environmental
- Operating Temperature: 0ºC to 40ºC (32ºF to 104ºF )
- High Humidity: 90%
- Low Humidity: 5%

### Operating System Support
- Windows 7 Ultimate (64-bit)
- Windows 7 Pro (64-bit)
- Windows 7 Pro (FES) 32-Bit
- Windows 7 Pro (FES) 64-Bit
- Windows 7 PRO (FES) DGS 32-BIT
- Windows 7 PRO (FES) DGS 64-BIT
- Windows Embedded 7 (32-Bit)
- Windows Embedded 7 (64-Bit)
- Windows Embedded 8 (32-bit)
- Windows Embedded 8 (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 10 Home (32 Bit)
- Windows 10 Home (64 Bit)
- Windows 10 Pro (32 Bit)
- Windows 10 Pro (64-Bit)

- 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: 14lbs
- Shipping Weight: 40lbs

### 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): 18Watts

### Compliance of Component
- CE
- RoHS
- CCC

### Warranty
- Warranty: 1 year

### Other
- Features:

## Industrial Display

- Screen Size: 19"
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1280 x 1024
- Brightness (nits): 350

- Windows 10 IoT Entry 32-bit
- Windows 10 IoT Entry
- Windows 10 IoT Entry 32-bit 2019 LTSC
- Windows 10 IoT Entry 2019 LTSC
- SL-Windows 11PRO to 10PRO 32bit
- SL-Windows 11PRO to 10PRO 64bit
- LINUX Ubuntu Desktop

**Compliance of Component**

- UL
- CE
- FCC
- CB
- CCC

**Warranty of Component**

- Motherboard Warranty: 1 Year

**Other Features**

- Other Features:
  12V AC/DC Adapter, Power Cord, Wall bracket,
  DIN Rail Clip Included

  *USB 2.0 Header are used for the front USB Ports

## Chassis Specifications:

**General**

- Form Factor: Embedded PC
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Slide Rails: Optional

**Expansion**

- Internal 2.5" Bays: 1
- Serial Port Punchouts: 2

**Front Ports**

- USB 2.0 Ports (Front): 2
- Front Audio Ports: 1

**Physical**

- Depth: 142mm
- Width: 185mm
- Height: 48mm
- Shipping Box - Depth: 118mm
- Shipping Box - Width: 250mm
- Shipping Box - Height: 295mm
- Shipping Weight: 7lbs

**Power**

- Built-in Chassis Power Supply: +9V ~ +24V DC-in
  jack