# Microbox PC Embedded PC

Configuration Number: BASE CONFIG
SL-EB-J5040-S19

## Type:

- Microbox PC
- Dimension: 8.30" x 8" x 3.50"

## Motherboard:

- Featuring Intel Pentium SoC and Intel Pentium Quad-Core Processor J5040 (up to 3.2 GHz)
- **Low Profile Slots:**
  1 - PCIe x1
- **LAN:** 1x Ports (1GbE (10/100/1000))
- **Video:** VGA + DVI-D + HDMI
- **Audio:** Realtek ALC892
- **Ports:**
  5x USB 2.0 Ports ( 2 Front, 2 Rear, 1 Internal Headers )
  4x USB 3.2 Gen 1 Ports ( 2 Rear, 2 Internal Headers )
  1x COM Port (RS232 Internal Headers)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 50ºC (32ºF to 122ºF)

## Configuration summary:

- **Memory:** 8GB DDR4 2666MHz SODIMM RAM
- **Hard Drive:** 250GB SSD SATA 6.0Gb/s 560/530MB/s 2.5" - Samsung 870 EVO
- **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

### Supported CPU
- Number of Processors: 1
- Processor Type: Embedded CPUs (ultra-low power, soldered down)
- Embedded CPU: Intel Pentium Quad-Core Processor J5040 (up to 3.2 GHz)

### Chipset
- Chipset: Intel Pentium SoC

### Memory
- Memory Type: DDR4 2400MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 8GB

### On Board Audio
- Audio Type: Realtek ALC892

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

### LAN
- LAN Ports: 1
- LAN Type: 1GbE (10/100/1000)
- LAN Chipset: Realtek RTL8111H
- Wireless LAN: No Integrated WLAN

### Drive Interface
- SATA III Ports (6GB): 4

### Expansion Slots
- PCI Express x1 Slots On Motherboard: 1

### M.2 Slot Specs
- M.2 Slot #1 Specs
- PCIe Signal
- 2230 - 22 mm x 30 mm.

## 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

**Rear IO**

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

**Headers**

- USB 2.0 Ports (on Headers): 3
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 1
- FAN Connectors: 2
- Audio on Headers

**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)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Entry 2019 LTSC
- Windows 10 IoT 2021 LTSC Entry
- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 IoT 2024 LTSC Entry
- LINUX Ubuntu Desktop

**Compliance of Component**

- CE
- FCC

**Other Features**

- Other Features:
  *USB3_0_1 is shared with USB_0_1.

- Motherboard Warranty: 1 Year