

## Microbox PC Embedded PC

Configuration Number: BASE CONFIG  
SL-EB-PD-Q170SSV-S19



### Type:

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

### Motherboard:

- Featuring Intel Q170 Chipset and 7th and 6th Gen Core i7/i5/i3 (LGA1151) processor
- **Long Production Cycle Motherboard (Through Q4 2025)**
- **Low Profile Slots:**
  - 1 - PCIe x16
- **LAN:** 2x Ports (1GbE + 1GbE)
- **RAID:** 0,1
- **Video:** DVI-I + HDMI + DisplayPort
- **Audio:** 7.1 Channel HD Audio by Realtek ALC888S
- **Ports:**
  - 4x USB 2.0 Ports ( 2 Front, 2 Internal Headers )
  - 6x USB 3.2 Gen 1 Ports ( 4 Rear, 2 Internal Headers )
  - 2x COM Ports (RS232 Rear)
  - See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)

### Configuration summary:

- **Processor:** G4400 - 3.3GHz Intel Pentium Dual Core - 3MB Cache, HD Graphics 510 (54W) (ERM) or Better
- **Memory:** 8GB DDR4 2666MHz SODIMM 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
- Long Production Cycle
- Long Life: YES
- EOL Date: Q4 2025

#### Supported CPU

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

#### Chipset

- Chipset: Intel Q170 Chipset

#### Memory

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

#### On Board Audio

- Audio Type: 7.1 Channel HD Audio by Realtek ALC888S

#### On Board Video

- Video Chipset: Intel HD Graphics
- Video on IO: DVI-I + HDMI + DisplayPort
- DVI-I Out: 1
- Display Port Out: 1
- HDMI Out: 1

#### LAN

- LAN Ports: 2
- LAN Type: 1GbE + 1GbE
- LAN Chipset: Intel i219V
- Second LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

#### Drive Interface

- SATA III Ports (6GB): 5

### 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

- 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**

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

#### **M.2 Slot Specs**

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2280 - 22 mm x 80 mm.

#### **Rear IO**

- USB 3.2 Gen 1 Type A Ports (on IO): 4
- Serial (Rear IO): 2
- Audio on IO

#### **Headers**

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 2.0 Ports (Type A): 1
- FAN Connectors: 4
- Audio on Headers
- Chassis Intrusion
- TPM Support: Via 2.0 Header

#### **Management Features**

- AMT
- vPRO
- NMI
- Watch Dog

#### **Environmental**

- Operating Temperature: 0°C to 60°C (32°F to 140°F )
- High Humidity: 85%
- Low Humidity: 10%

#### **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
- Windows 7 PRO (FES) DGS 32-BIT

- Windows 7 PRO (FES) DGS 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 (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Value
- Windows 10 IoT Ent
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- Windows Server 2012
- RED HAT Enterprise LINUX SERVER STANDARD
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

#### **Compliance of Component**

- UL
- CE
- RoHS
- FCC

#### **Other Features**

- Other Features:
  - 1 PCI-E 3.0 x16
  - Mini-PCIe with mSATA support,
  - M.2 PCI-E 3.0 x4 with SATA support, M Key
  - M.2 Form Factor: 2242, 2280

\* 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



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