

## Microbox PC Embedded PC

Configuration Number: BASE CONFIG  
SL-MB-SBC-Q87-BB



### Type:

- Microbox PC
- Dimension: 16.37" x 11" x 7.77"

### Motherboard:

- Featuring Intel Q87 Chipset and 4th Gen Core i3/i5/i7 (LGA1150, 'Haswell') processor
- **Full Height Slots:**
  - 1 - PCIe x16
  - 3 - PCIe x4
  - 3 - PCI
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** VGA
- **Audio:** 2-channel HD Audio by Realtek ALC262
- **Ports:**
  - 10x USB 2.0 Ports ( 2 Front, 8 Internal Headers )
  - 4x USB 3.2 Gen 1 Ports ( 2 Rear, 2 Internal Headers )
  - 5x COM Ports (4 RS232 Internal Headers, 1 RS232/422/485 Internal Headers)
  - 1x Parallel Port (Headers)

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

### Configuration summary:

- **Processor:** G1820 - 2.7GHz Intel Dual Core Celeron CPU - 2MB Cache, HD Graphics (53W) (ERM)
- **Memory:** 4GB DDR3 1600MHz RAM
- **Hard Drive:** 1.0TB SATA 6.0Gb/s 7200RPM 64MB 3.5" - WD Blue
- **Power Supply:** 400W Power Supply

- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

# Technical Specifications

## MotherBoard Specifications:

### Motherboard Model

- Motherboard Type: Single Board Computer (SBC)
- PICMG: 1.3

### Supported CPU

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

### Chipset

- Chipset: Intel Q87 Chipset

### Memory

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

### On Board Audio

- Audio Type: 2-channel HD Audio by Realtek ALC262

### On Board Video

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

### LAN

- LAN Ports: 2
- LAN Type: 1GbE + 1GbE
- LAN Chipset: Intel i217LM
- Second LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

### Drive Interface

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

## Chassis Specifications:

### General

- Form Factor: Embedded PC
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: 8-Slot SBC
- Slide Rails: Optional

### Expansion

- Full Height Slots: 8
- Max Card Depth: 13.3"
- External 5.25" Bays: 1
- Internal 3.5" Bays: 1
- External 3.5" Bays: 1

### Front Ports

- USB 2.0 Ports (Front): 2

### Cooling System

- Maximum Fan Count: 1
- Included Fans: 1

### Physical

- Depth: 16.37"
- Width: 11"
- Height: 7.77"
- Shipping Box - Depth:
- Shipping Box - Width:
- Shipping Box - Height:
- Shipping Weight:

### Compliance of Component

- UL
- CE
- RoHS
- FCC

### Other Features

- Chassis Warranty: 1 Year

## **M.2 Slot Specs**

### **Rear IO**

- USB 3.2 Gen 1 Type A Ports (on IO): 2

### **Headers**

- USB 2.0 Ports (on Headers): 10
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 4
- Serial 232/422/485 Ports: 1
- Parallel Ports: 1
- FAN Connectors: 2
- Digital I/O (8 Bit) On Headers
- PS/2 Combo (Mouse/Keyboard) on Headers

### **Management Features**

- Watch Dog

### **Environmental**

- Operating Temperature: 0°C to 60°C (32°F to 140°F )
- High Humidity: 95%
- 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
- LINUX Ubuntu Workstation
- Ubuntu Server Edition

**Compliance of Component**

- CE

**Other Features**

- Motherboard Warranty: 1 Year



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