

X11SSV-Q



vPro AMT Embedded

Key Features

1. Single socket H4 (LGA 1151) supports Intel® 7th/6th Gen. Core i7/i5/i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® Q170 Express chipset
3. Up to 32GB Unbuffered Non-ECC SO-DIMM DDR4 2400MHz; 2 DIMM slots
4. 1 PCI-E 3.0 x16, Mini-PCI-E (mSATA support) M.2 PCI-E 3.0 x4 (SATA support), M Key 2242/80
5. Dual GbE LAN w / Intel i219LM + i210AT
6. 1 HDMI, 1 DP, 1 DVI-I, Intel HD Graphics 3 independent displays
7. 5 SATA3 (6Gbps) via Q170; RAID 0, 1, 5, 10
8. 2 SATA DOM, 2 COM ports, TPM header, ALC 888S HD Audio
9. AMT, vPro
10. Supports 12V DC power input

Links & Resources

[Tested Memory List](#)

[Tested HDD / SSD List](#)

[Tested M.2 List](#)

[Motherboard Manual](#)

[Quick Reference Guide](#)

[Update Your BIOS](#)

[Download the Latest Drivers and Utilities](#)

[Download Drivers CD](#)

[OS Compatibility](#)

[Optimization](#)



Specifications

Product SKUs

- MBD-X11SSV-Q** ■ X11SSV-Q

Physical Stats

- Form Factor** ■ Mini-ITX
- Dimensions** ■ 6.7" x 6.7" (17.02cm x 17.02cm)

Processor/Cache

- CPU**
 - Intel® 6th Generation Core™ i3 series
 - Intel® 6th Generation Core™ i5 series
 - Intel® 6th Generation Core™ i7 series
 - Intel® 7th Generation Core™ i3 series
 - Intel® 7th Generation Core™ i5 series
 - Intel® 7th Generation Core™ i7 series
 - Intel® Celeron®
 - Intel® Pentium®
 - Socket LGA 1151 supported; CPU TDP support Up to 91W

- Note** ■ BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ Processors

System Memory

- Memory Capacity** ■ Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2400MHz, in 2 DIMM slots
- Memory Type** ■ 2400/2133/1866MHz Non-ECC DDR4 SDRAM 72-bit, 260-pin gold-plated SODIMMs
- DIMM Sizes** ■ 4GB, 8GB, 16GB
- Memory Voltage** ■ 1.2V

On-Board Devices

- Chipset** ■ Intel® Q170 Express
- SATA** ■ Intel® Q170 Express controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10
■ Intel RST
- Network Controllers** ■ Single Intel® PHY I219LM LAN controller
■ Single Intel® Ethernet Controller I210-AT
- Audio** ■ ALC 888S HD Audio
- Graphics** ■ Intel® HD Graphics
■ 3 Independent Displays

Input / Output

- USB** ■ 5 USB 2.0 ports (4 via header(s), 1 Type A)
■ 6 USB 3.0 ports (4 rear, 2 via header(s))
- Video Output** ■ 1 HDMI port(s), 1 DP (DisplayPort) port(s), 1 DVI-I port(s)
- Serial Port / Header** ■ 2 COM Ports (2 rear)
- TPM** ■ TPM Header
- Others** ■ SGPIO Header, SMBus header, GPIO

Expansion Slots

- PCI-E** ■ 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

System BIOS

- BIOS Type** ■ AMI UEFI
- BIOS Features** ■ ACPI 5.0
■ DMI 2.3
■ PCI 3.0
■ Plug and Play (PnP)
■ SMBIOS 3.0
■ UEFI 2.3.1
■ USB Keyboard support

Management

- Software** ■ AMT
■ NMI
■ SuperDoctor® 5
■ vPro
■ Watchdog
- Power Configurations** ■ ACPI Power Management
■ Power-on mode for AC power recovery

PC Health Monitoring

- Voltage** ■ +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 4 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
- FAN** ■ 4x 4-pin fan headers (up to 4 fans)
■ Pulse Width Modulated (PWM) fan connectors
■ PWM fan speed control
■ System level control
■ Thermal control tachometer fan connectors
- Temperature** ■ Monitoring for CPU and chassis environment
■ CPU thermal trip support
■ Thermal Monitor 2 (TM2) support
■ PECI
- LED** ■ CPU / System Overheat LED
■ Standby alert LED
- Other Features** ■ 8-pin 12v DC power connector
■ ACPI power management
■ ATX Power connector
■ Chassis intrusion header
■ Control of power-on for recovery from AC power loss
■ CPU thermal trip support for processor protection
■ Intel Smart Response Technology
■ M.2 NGFF connector
■ RoHS
■ System level control
■ WOL

Operating Environment

Operating Temperature Range ■ 0°C ~ 60°C (32°F ~ 140°F)

Non-Operating Temperature Range ■ -20°C ~ 60°C (-4°F ~ 140°F)

Operating Relative Humidity Range ■ 10% ~ 85% (non-condensing)

Non-Operating Relative Humidity Range ■ 10% ~ 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSV-Q	1	X11SSV-Q Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00070-1N	1	Standard I/O Shield for X11SSV-Q

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSV-Q	1	X11SSV-Q Motherboard
QRG	MNL-1795-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	4	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00070-1N	1	Standard I/O Shield for X11SSV-Q

Optional Parts List			
Name	Part Number	Qty	Description
mSATA 64GB	SSD-DM064-PHI	--	Supermicro mSATA, half card, 64GB SSD
mSATA 128GB	SSD-DM128-SMCMVN1	--	Supermicro mSATA 128GB MLC
TPM security module	AOM-TPM-9655V	--	TPM Module with Infineon 9655, RoHS/REACH,PBF; Vertical

Chassis (Optimized for X11SSV-Q)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
				SC731i-300B 2U Heatsink:SNK-P0046A4	

● = Most optimized Chassis for SuperServer Configuration
● = Compatible
● = Global SKU & Compatible
● & ● = Optimized + Global SKU

Server (Optimized for X11SSV-Q)

Server Name
<u>SYS-5029S-TN2</u>