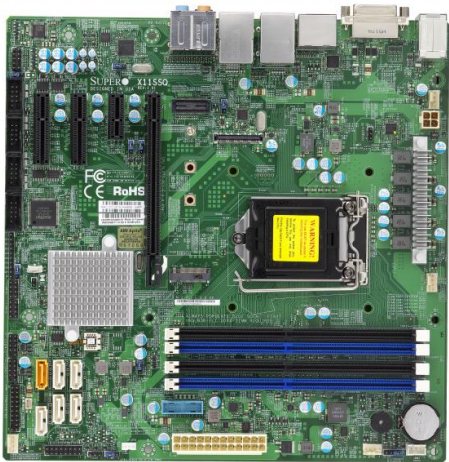




**vPro AMT
Embedded
Desktop**

Key Features

- 1. 1 HDMI port, 1 DP (DisplayPort) port, 1 DVI - D port,
3 Independent Displays
- 2. Single socket H4 (LGA 1151) supports
Intel® 7th/6th Gen. Core i7/i5/i3 series,
Intel® Celeron® and Intel® Pentium®
- 3. 1 M.2 PCIe 3.0 x2, 2242/2260/2280
- 4. Intel® Q170 Express chipset
- 5. Up to 64GB DDR4 2400MHz Non-ECC Unbuffered UDIMM; 4 DIMM slots
- 6. 1 PCIe 3.0 x16, 2 PCIe 3.0 x4 (w / open slots),
1x PCIe 3.0 x1,
M.2 PCIe 3.0 x2 M Key 2242/60/80
- 7. Dual GbE LAN w / Intel i219LM + i210AT
- 8. 6 SATA3 (6Gbps) via Q170; RAID 0, 1, 5, 10
- 9. 1 SATA DOM, 4 COM ports, TPM header, ALC 888S HD Audio 7.1
- 10. AMT, vPro

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-X11SSQ	■ X11SSQ
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Physical Stats

Form Factor	■ Micro-ATX
Dimensions	■ 9.6" x 9.6" (24.38cm x 24.38cm)

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®. ■ Single Socket H4 (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 64GB Unbuffered non-ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots
Memory Type	■ 2400/2133/1866MHz Non-ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
DIMM Sizes	■ 4GB, 8GB, 16GB
Memory Voltage	■ 1.2V

On-Board Devices

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

Input / Output

SATA	■ 6 SATA3 (6Gbps) ports
LAN	■ 2 RJ45 Gigabit Ethernet LAN ports
USB	■ 8 USB 2.0 ports (4 rear + 4 headers) ■ 4 USB 3.0 ports (2 rear + 2 headers)
Video Output	■ 1 HDMI port, 1 DP (DisplayPort) port, 1 DVI - D port, ■ 3 Independent Displays
Serial Port / Header	■ 4 COM Ports (4 headers)
TPM	■ TPM Header
Others	■ 8 bit GPIO, Force On mode by jumper and AC recovery

Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x16, ■ 2 PCI-E 3.0 x4, ■ 1 PCI-E 3.0 x1 ■ M.2 PCI-E x2 M Key 2242/2260/2280, PCI-E 3.0 x4 with open slots
M.2	■ 1 M.2 PCI-E 3.0 x2, 2242/2260/2280

System BIOS

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

Management

Software	■ AMT, NMI, SuperDoctor® 5, vPro, Watchdog
Power Configurations	■ ACPI Power Management ■ Keyboard Wakeup from Soft-Off ■ Power-on mode for AC power recovery ■ Force Power On by Jumper

PC Health Monitoring

Voltage	■ +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 4 -fan status, Chassis intrusion header, Memory, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT
FAN	■ 4x 4-pin fan headers (up to 4 fans), Fan speed control, Low noise fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors
Temperature	■ CPU thermal trip support, Adaptive Thermal Monitor, PECI 3.0, Thermal Monitor 2 (TM2) support, PECI
LED	■ CPU / System Overheat LED, Standby alert LED
Other Features	■ ACPI power management, ATX Power connector, Chassis intrusion detection, 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-X11SSQ	1	X11SSQ Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00063-1N	1	Standard I/O Shield for X11SSQ

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSQ	1	X11SSQ Motherboard
QRG	MNL-1793-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00063-1N	1	Standard I/O Shield for X11SSQ

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module	AOM-TPM-9655V AOM-TPM-9655H	--	TPM Module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal

Chassis (Optimized for X11SSQ)

Embedded Compact	1U	2U	3U	Mid / Mini-Tower	4U / Tower
		SC823MTQ-R700LPB SC825MTQ-R700LPB 2U Heatsink:SNK-P0046A4	SC835BTQ-R1K28B 2U Heatsink:SNK-P0046A4	SC731i-300B SC732D4F-500B SC732D4F-865B SC732D4F-903B SC732D4-500B SC732D4-865B SC732D4-903B SC732D2-500B SC732D2-865B SC732D2-903B SC732I-500B SC732i-865B SC731i-403B 2U Heatsink:SNK-P0046A4	SC842i-500B SC842XTQ-R606B 2U Heatsink:SNK-P0046A4

= Most optimized Chassis for SuperServer Configuration
Blue color = Compatible
Green color = Global SKU & Compatible
Red dot & green color = Optimized + Global SKU