



Workstation Key Features

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1. Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors.
Single Socket LGA-2066 (Socket R4) supported, CPU TDP support Up to 165W TDP
2. Intel® C422
3. Up to 512GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1TB Registered ECC LRDIMM, DDR4-2666MHz, in 8 DIMM slots(DDR4-2933MHz: RDIMM Max. Memory Capacity 256GB Registered ECC, LRDIMM Max. Memory Capacity 512GB Registered ECC)
4. 3 PCI-E 3.0 x16,
1 PCI-E 3.0 x4

3xPCI-E3.0 x16 Slots(8/16/16 (Skylake-W 48 lanes), 1xPCI-E3.0x4 slots

M.2 Interface: 2 PCI-E 3.0 x4
M.2 Form Factor: 22110
M.2 Key: M-Key (RAID 0,1 support)
*M-Key for SSD and Optane(up to Intel POR). Intel VROC licence kit is needed to enable RAID.

U.2 Interface: 2 PCI-E 3.0 x4
5. Intel® C422 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
*IRST enabled, only SATA2 to SATA5 support RAID.
6. Single LAN with Intel® PHY I219LM LAN controller
Single LAN with Aquantia 5G LAN chip AQC108

Specifications

Product SKUs

MBD-X11SRA	■ X11SRA
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Physical Stats

Form Factor	■ ATX
Dimensions	■ 12" x 9.6" (30.48cm x 24.38cm)

Processor/Cache

CPU	■ Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors. ■ Single Socket LGA-2066 (Socket R4) supported, CPU TDP support Up to 165W TDP ■ As Intel® Xeon® Processor W Family
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System Memory

Memory Capacity	■ Up to 512GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1TB Registered ECC LRDIMM, DDR4-2666MHz, in 8 DIMM slots(DDR4-2933MHz: RDIMM Max. Memory Capacity 256GB Registered ECC, LRDIMM Max. Memory Capacity 512GB Registered ECC)
Memory Type	■ 2666/2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit 288-pin RDIMM/LRDIMM
DIMM Sizes	■ 4GB, 8GB, 16GB, 32GB, 64GB
Memory Voltage	■ 1.2V

On-Board Devices

Chipset	■ Intel® C422
SATA	■ Intel® C422 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 ■ *iRST enabled, only SATA2 to SATA5 support RAID.
Network Controllers	■ Single LAN with Intel® PHY I219LM LAN controller Single LAN with Aquantia 5G LAN chip AQC108
Audio	■ ALC 1220 7.1 HD Audio

Input / Output

USB	■ 6 USB 2.0 ports (2 rear + 4 via headers) ■ 6 USB 3.0 ports (4 rear + 2 via headers) ■ 2 USB 3.1 ports (2 Type A)
Serial Port / Header	■ 1 COM Port (1 header)
TPM	■ 1 TPM Header

Expansion Slots

PCI-E	■ 3 PCI-E 3.0 x16, ■ 1 PCI-E 3.0 x4 ■ ***3xPCI-E3.0 x16 Slots(8/16/16 (Skylake-W 48 lanes), 1xPCI-E3.0x4 slots***
M.2	■ M.2 Interface: 2 PCI-E 3.0 x4 ■ Form Factor: 22110 ■ Key: M-Key (RAID 0,1 support) ■ *M-Key for SSD and Optane(up to Intel POR). Intel VROC licence kit is needed to enable RAID.

System BIOS

BIOS Type	■ UEFI 256Mb
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Management

Software	■ AMT, SuperDoctor® 5, Watchdog
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PC Health Monitoring

Voltage	■ +1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 5 (4-pin), Chassis intrusion header, Monitors CPU voltages, Monitors for CPU Cores, System temperature, VBAT
FAN	■ 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, PWM fan speed control
Temperature	■ CPU thermal trip support, Monitoring for CPU and chassis environment, PECI, Support to monitor Supermicro AOC temperatures from IPMI or SD 5
LED	■ CPU / System Overheat 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, RoHS, Voltage and Frequency Overclocking, WOL

Operating Environment

Operating Temperature Range	■ 0°C ~ 50°C (32°F ~ 122°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-X11SRA	1	X11SRA Motherboard
SATA cable	CBL-0044L	2	SATA cable
IO shield	MCP-260-00118-0N	1	X11SRA series IO shield

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SRA	1	X11SRA Motherboard
SATA cable	CBL-0044L	6	SATA cable
IO shield	MCP-260-00118-0N	1	X11SRA series IO shield
Quick Reference Guide	MNL-2005-QRG	1	X11SRA series Quick Reference Guide
Giftbox	Box-0121	1	Giftbox
Giftbox foam	BOX-019	1	Giftbox foam

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9671V	1	
TPM security module (optional, not included)	AOM-TPM-9671H	1	
TPM security module (optional, not included)	AOM-TPM-9671H-S	1	
TPM security module (optional, not included)	AOM-TPM-9671V-S	1	
TPM security module (optional, not included)	AOM-TPM-9670V	1	
TPM security module (optional, not included)	AOM-TPM-9670V-S	1	
TPM security module (optional, not included)	AOM-TPM-9670H	1	
TPM security module (optional, not included)	AOM-TPM-9670H-S	1	

Chassis (Optimized for X11SRA)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
				SC732D3-903B SC732D3-1200B SCGS5A-753K SCGS5A-753R 4U Heatsink:SNK-P0050AP4	SC743AC-668B SC743AC-1200B-SQ SC743TQ-865B-SQ SC745BAC-R1K28B2 4U Heatsink:SNK-P0050AP4

SC743AC-668B

SC743AC-1200B-SQ

SC743TQ-865B-SQ

SC745BAC-R1K28B2

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

Server (Optimized for X11SRA)

Server Name
<u>SYS-5039A-I</u>