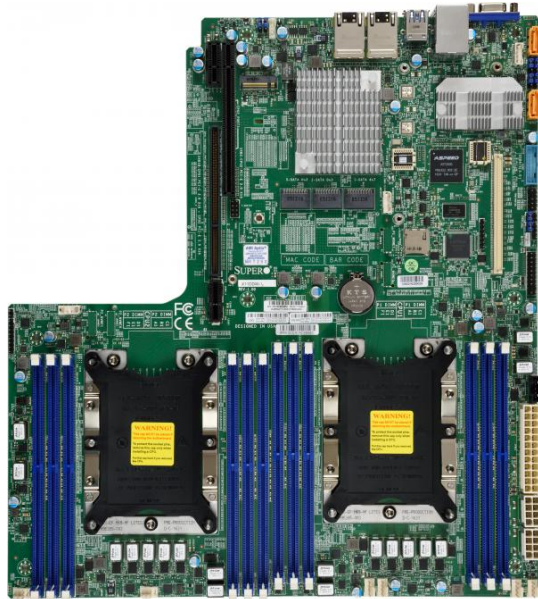




Datacenter Optimized Key Features

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors,
Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2
UPI up to 10.4 GT/s
2. Intel® C621
3. Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-
2933MHz, in 12 DIMM slots;
Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake
only)
4. 1 PCI-E 3.0 x32 Left Riser Slot,
1 PCI-E 3.0 x16 Right Riser Slot,
1 PCI-E 3.0 x16 for Add-On-Module (AOM)
M.2 Interface: PCI-E 3.0 x4
M.2 Form Factor: 2242, 2260, 2280, 22110
M.2 Key: M-Key
5. 1 VGA port
6. Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. Dual LAN with GbE
from C621

Links & Resources

[Tested Memory List](#)

[Tested HDD / SSD List](#)

[Tested M.2 List](#)

[Tested AOC List](#)

[Motherboard Manual](#)

[Quick Reference Guide](#)

[Update Your BIOS](#)

[BMC/IPMI Firmware](#)

[Download the Latest Drivers and Utilities](#)

[Download Drivers CD](#)

[OS Compatibility](#)

[Optimization](#)

Specifications

Product SKUs

MBD-X11DDW-L	■ X11DDW-L
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Physical Stats

Form Factor	■ Proprietary WIO
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Dimensions	■ 12.3" x 13.4" (31.24cm x 34.04cm)
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Processor/Cache

CPU	■ 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, ■ Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s
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Note	■ BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)
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System Memory

Memory Capacity	■ Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots; ■ Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
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Memory Type	■ 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
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DIMM Sizes	■ RDIMM: 64GB, 128GB ■ LRDIMM: 64GB, 128GB ■ 3DS LRDIMM: 128GB, 256GB
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Memory Voltage	■ 1.2V
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Error Detection	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)
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On-Board Devices

Chipset	■ Intel® C621
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SATA	■ Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
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IPMI	■ ASPEED AST2500
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Network Controllers	■ Dual LAN with GbE from C621
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Graphics	■ Aspeed AST2500 BMC
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Input / Output

LAN	■ 2 RJ45 Gigabit Ethernet LAN ports
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USB	■ 6 USB 3.0 ports (4 rear + 2 headers)
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Video Output	■ 1 VGA port
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TPM	■ 1 TPM Header
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Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x32 Left Riser Slot, ■ 1 PCI-E 3.0 x16 Right Riser Slot, ■ 1 PCI-E 3.0 x16 for Add-On-Module (AOM) (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and AOC Support for details.)
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M.2	■ M.2 Interface: PCI-E 3.0 x4 ■ Form Factor: 2242, 2260, 2280, 22110 ■ Key: M-Key
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System BIOS

BIOS Type	■ UEFI 256Mb
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Management

Software	■ Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
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PC Health Monitoring

Voltage	■ +1.8V, +12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages
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FAN	■ 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, PWM fan speed control, Status monitoring for speed control
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Temperature	■ CPU thermal trip support, Monitoring for CPU and chassis environment
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LED	■ CPU / System Overheat LED, UID/Remote UID, BMC/IPMI Heartbeat LED, Power LED
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Other Features	■ Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID
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Operating Environment

Operating Temperature Range	■ 10°C - 35°C (50°F - 95°F)
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Non-Operating Temperature Range	■ -40°C - 70°C (-40°F - 158°F)
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Operating Relative Humidity Range	■ 8% - 90% (non-condensing)
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Non-Operating Relative Humidity Range	■ 5% - 95% (non-condensing)
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Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
X11DDW-L	MBD-X11DDW-L	1	Motherboard
IO Cable	CBL-SAST-0388L-02	1	IPASS to 4 SATA cable

Parts List (Retail Package)			
Name	Part Number	Qty	Description
X11DDW-L	MBD-X11DDW-L	1	Motherboard
IO Cable	CBL-SAST-0388L-02	1	IPASS to 4 SATA cable
Quick Reference Guide	MNL-1907-QRG	1	Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9670V-S		SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor
TPM security module (optional, not included)	AOM-TPM-9671V-S		SPI capable TPM 1.2 with Infineon 9671 controller with horizontal form factor

Chassis (Optimized for X11DDW-L)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	● <u>SC815TQC-R706WB2</u> ● <u>SC815TQC-605WB</u> ● <u>SC116AC2-R706WB2</u> ● <u>SC113AC2-R706WB2</u> ● <u>SC113AC2-605WB</u> ● <u>SC825MBTQC-R802WB</u> ● <u>SCLA15TQC-563W</u> 1U Heatsink:SNK-P0067PSMB	823MTQC-R802WB 825MBTQC-R802WB 1U Heatsink:SNK-P0067PSMB ● <u>SC825TQC-R1K03WB</u> ● <u>SC826BAC4-R1K23WB</u> 2U Heatsink:SNK-P0068PS			

823MTQC-R802WB

825MBTQC-R802WB

1U Heatsink:SNK-P0067PSMB

 SC825TQC-R1K03WB SC826BAC4-R1K23WB

2U Heatsink:SNK-P0068PS

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

Server (Optimized for X11DDW-L)

Server Name
<u>SYS-1029P-WT</u>
<u>SYS-1029P-WTR</u>
<u>SYS-6019P-WT</u>
<u>SYS-6019P-WTR</u>
<u>SYS-6019P-WT8</u>
<u>SYS-6029P-WTR</u>