



Workstation Broadcom 3008 SAS3 SW RAID

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 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-
2933MHz, in 16 DIMM slots
4. 3 PCI-E 3.0 x16 (in x16 slot),
3 PCI-E 3.0 x8
5. 1 VGA D-Sub Connector port
6. Intel® C621 controller for 8 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-X11DAC** ■ X11DAC

Physical Stats

- **Form Factor** ■ E-ATX
- **Dimensions** ■ 12" x 13" (30.48cm x 33.02cm)

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
- **Note** ■ BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

- **Memory Capacity** ■ Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz, in 16 DIMM slots
- **Memory Type** ■ 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
- **DIMM Sizes** ■ RDIMM: 64GB, 128GB
■ LRDIMM: 64GB, 128GB
■ 3DS LRDIMM: 128GB, 256GB
- **Memory Voltage** ■ 1.2V
- **Error Detection** ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

- **Chipset** ■ Intel® C621
- **SATA** ■ Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- **SAS** ■ Broadcom 3008 SW RAID 8 ports SAS3 0,1,10
- **IPMI** ■ ASPEED AST2500
- **Network Controllers** ■ Dual LAN with GbE from C621
- **Audio** ■ 7.1 HD Audio
- **Graphics** ■ Aspeed AST2500 BMC

Input / Output

- **USB** ■ 6 USB 3.0 ports (4 rear + 2 headers)
- **Video Output** ■ 1 VGA D-Sub Connector port
- **Serial Port / Header** ■ 1 COM Port (1 header)
- **TPM** ■ 1 TPM Header
- **Others** ■ PS/2 COMBO

Expansion Slots

- **PCI-E** ■ 3 PCI-E 3.0 x16 (in x16 slot),
■ 3 PCI-E 3.0 x8

System BIOS

- **BIOS Type** ■ AMI UEFI

Management

- **Software** ■ Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog

PC Health Monitoring

- **Voltage** ■ +12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages
- **FAN** ■ 7x 4-pin fan headers (up to 7 fans), 7 fans with tachometer status monitoring, PWM fan speed control, Status monitoring for speed control
- **Temperature** ■ CPU thermal trip support, Monitoring for CPU and chassis environment
- **LED** ■ CPU / System Overheat LED, Suspend static indicator LED, BMC/IPMI Heartbeat LED, Power LED
- **Other Features** ■ Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS

Operating Environment

- **Operating Temperature Range** ■ 10°C - 35°C (50°F - 95°F)
- **Non-Operating Temperature Range** ■ -20°C ~ 60°C (-4°F ~ 140°F)
- **Operating Relative Humidity Range** ■ 8% - 90% (non-condensing)
- **Non-Operating Relative Humidity Range** ■ 5% - 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DAC	1	X11DAC Motherboard
I/O Shield	MCP-260-00119-0N	1	STD size I/O Shield for X11DAC with EMI Gasket and front metal,RoHS/REACH
SATA cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DAC	1	X11DAC Motherboard
I/O Shield	MCP-260-00119-0N	1	STD size I/O Shield for X11DAC with EMI Gasket and front metal,RoHS/REACH
SATA cable	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
QRG	MNL-2082-QRG	1	X11DAC QUICK REFERENCE GUIDE

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

Chassis (Optimized for X11DAC)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
				<ul style="list-style-type: none"> ● SC732D3-1200B ● SC732D4-903B 	● SC743AC-1200B-SQ

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU