

SuperServer 6019P-WT



Integrated Board



Super X11DDW-L

Views: | [Angled View](#) | [Top View](#) |
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Key Features

- ❑ Web Server, Firewall Apps.
- ❑ Corporate-Wins, DNS, Print, Login
- ❑ Gateway, provisioning servers
- ❑ Compact Network Appliance
- ❑ Cloud Computing

1. Dual Socket P (LGA 3647) support
2nd Gen. Intel® Xeon® Scalable
processors (Cascade Lake/Skylake)[‡]
2. 12 DIMMs; up to 3TB 3DS ECC
DDR4-2933MHz[†] RDIMM/LRDIMM,
Supports Intel® Optane™ DCPMM^{††}
3. 2 PCI-E 3.0 x16 (FHHL) slots,
1 PCI-E 3.0 x8 (LP) slot,
1 PCI-E 3.0 x16 for Add-on-Module
(Support SAS3 Storage controller),
1 PCI-E 3.0 x4 NVMe M.2 slot
4. 4 Hot-swap 3.5" SAS3/SATA3 drive
bays with SES2
5. Optional 1 slim DVD-ROM drive
6. 2 1GbE LAN ports via Intel C621
7. 1 VGA, 4 USB 3.0 (rear)
8. 600W Multi Output Power Supply,
Platinum Level High-efficiency

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

- SYS-6019P-WT** ■ SuperServer 6019P-WT (**Black**)

Motherboard

Super X11DDW-L

Processor/Cache

- CPU** ■ Dual Socket P (LGA 3647)
■ 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)‡,
Dual UPI up to 10.4GT/s
■ Support CPU TDP 70-165W*

- Cores** ■ Up to 28 Cores

- Note** * Certain high Frequency optimized CPU within 165Ws are not supported, for example, Intel Gold 6144 and 6146 are not supported on the system.

- Note** ‡ BIOS version 3.0a or above is required to support 2nd Gen. Intel® Xeon® Scalable processors

System Memory

- Memory Capacity** ■ 12 DIMM slots
■ Up to 3TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM
■ Supports Intel® Optane™ DCPMM††

- Memory Type** ■ 2933†/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

- Note** † 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supramicro
†† Cascade Lake only. Contact your Supramicro sales rep for more info.

On-Board Devices

- Chipset** ■ Intel® C621 chipset
- SATA** ■ SATA3 (6Gbps); RAID 0, 1, 5, 10
- Network Controllers** ■ Dual LAN with Gigabit Ethernet from C621
- IPMI** ■ Support for Intelligent Platform Management Interface v.2.0
■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- Video** ■ ASPEED AST2500 BMC

Input / Output

- SATA** ■ 4 SATA3 (6 Gbps) ports
- LAN** ■ 2 RJ45 Gigabit Ethernet ports
■ 1 RJ45 Dedicated IPMI LAN port
- USB** ■ 4 USB 3.0 ports (rear)
- Video** ■ 1 VGA port
- DOM** ■ 2 SuperDOM (Disk on Module) ports

System BIOS

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-815TQC-605WB**

Dimensions and Weight

- Width** ■ 17.2" (437mm)

- Height** ■ 1.7" (43mm)

- Depth** ■ 25.6" (650mm)

- Gross Weight** ■ 46 lbs (20.9kg)

- Available Colors** ■ Black

Front Panel

- Buttons** ■ Power On/Off button
■ UID button

- LEDs** ■ Power status LED
■ HDD activity LED
■ Network activity LEDs
■ Universal Information (UID) LED

Expansion Slots

- PCI-Express** ■ 2 PCI-E 3.0 x16 (FHHL) slots
■ 1 PCI-E 3.0 x8 (LP) slot
■ 1 PCI-E 3.0 x16 for Add-on-Module (AOM)
■ 1 PCI-E 3.0 x4 NVMe M.2 slot

(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.)

Drive Bays

- Hot-swap** ■ 4 Hot-swap 3.5" SATA3 drive bays

Backplane

SAS/SATA HDD Backplane

System Cooling

- Fans** ■ 4 Counter-rotating 4cm PWM fans, 2 fans for cooling AOC

Power Supply

600W High-Efficiency Power Supply w/PMBus 1.2, PFC, and Digital Switching

- AC Input** ■ 100-240V, 50-60Hz

- DC Output** ■ +3.3V: 15A
■ +5V: 18A
■ +5V standby: 3A
■ +12V: 49A
■ -12V: 0.5A

Certification



Platinum Certified
[Test Report]

Operating Environment

BIOS Type	■ AMI 32Mb SPI Flash ROM
Management	
Software	■ Intel® Node Manager ■ <u>IPMI 2.0</u> ■ KVM w ith dedicated LAN ■ <u>SSM, SPM, SUM</u> ■ <u>SuperDoctor® 5</u> ■ Watch Dog
Power Configurations	■ ACPI / APM Pow er Management

PC Health Monitoring

CPU	■ Monitors for CPU Cores, Chipset Voltages, Memory. ■ 4+1 Phase-sw itching voltage regulator
FAN	■ Fans w ith tachometer monitoring ■ Status monitor for speed control ■ Pulse Width Modulated (PWM) fan connectors
Temperature	■ Monitoring for CPU and chassis environment ■ Thermal Control for fan connectors

RoHS	■ RoHS Compliant
Environmental Spec.	■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) ■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DDW-L	1	Super X11DDW-L Motherboard
	CSE-815TQC-605WB	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Storage Cable	CBL-SAST-0388L-02	1	MINI SAS-4 SATA,INT,75/75/90/90CM,90CM SB,30AWG
Rubber Pad	MCP-150-00015-0B	2	Rubber pad, 3.0mm H, 10x10mm
Air Shroud	MCP-310-19019-0B	2	SC113/SC116/SC815/SC515, DP X11DDW Mylar air shroud
Air Block	MCP-320-00061-0B	1	CR foam for air block in SC113/SC116/SC815
Manual	MNL-1943-QRG	1	SYS-6019P-WT /WTR Quick Reference Guide,HF,RoHS
Riser Card (left)	RSC-R1UW-2E16	1	1U LHS WIO Riser card w ith tw o PCI-E x16 slots
Riser Card (right)	RSC-R1UW-E8R	1	1U RHS WIO Riser card w ith one PCI-E x8 slot
Heatsink w/ Retention	SNK-P0067PSMB	2	1U Passive High Performance Front CPU Heat Sink w / an 18-mm Wide Middle Air Channel for X11 Purley Platform Equipped w / a Narrow Retention Mechanism/Bolster
* Power Supply	PWS-605P-1H	1	1U 600W Multi Output Pow er Supply PMbus
* Power Cord	CBL-0160L	2	NEMA5-15P to C13 US pow er cord 16AWG 6ft, PBF (default for high watt)
* FAN	FAN-0156L4	4	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH
* Rail Set	MCP-290-00054-0N	1	Rail set, quick/quick, optional for 1U 17.2"W SC815

Notes:

1. Parts with * come with the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

	Part Number	Qty	Description
2.5" to 3.5" Converter Tray	MCP-220-00043-0N	-	Black Hot-sw ap Gen-4 2.5" to 3.5" HDD tray
DVD-ROM / RW & Mounting Kit	DVM-TEAC-DVD-SBT5 & MCP-220-81502-0N	1	BLACK TEAC SLIM DVD SATA DRIVE, HF, RoHS Slim SATA DVD mounting kit
	DVM-TEAC-DVDRW-SBT5 & MCP-220-81502-0N		BLACK TEAC SLIM DVD-RW SATA DRIVE, HF, RoHS Slim SATA DVD mounting kit
	DVM-PLDS-DVDRW-SBT5 & MCP-220-81502-0N		PHILIPS SLIM BLACK DVD-RW SATA DRIVE, HF, RoHS/REACH Slim SATA DVD mounting kit
Internal 2.5" HDD Tray (FDD Slot)	MCP-220-83601-0B	1	Black FDD dummy tray support 1x 2.5" slim HDD
Internal 2.5" HDD Tray (DVD Slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" slim HDD
Cable for internal HDD	CBL-SAST-0624	2	SATA,INT,ROUND,ST-ST,70CM,30AWG
	CBL-0289L	1	Y split, big 4 pin to tw o RA SATA pow er extension 30cm, 20AWG
Add-on card for internal M.2 NVMe	AOC-SLG3-2M2	-	Low Profile PCI-E x8 add-on card supports 2 PCI-E 3.0 x4 M-Key M.2 NVMe Modules
Intel VROC RAID Key	<u>AOC-VROCINTMOD</u>	1	Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only)
	<u>AOC-VROCSTNMOD</u>		Intel VROC Standard, RAID 0, 1, 10
	<u>AOC-VROCPREMOD</u>		Intel VROC Premium, RAID 0, 1, 5, 10
Additional Fan	FAN-0156L4	-	40x40x56 mm 13K-11K RPM Counter-rotating Fan

Storage Controller Card(s) & Cables(s)	AOM-S3108M-H8 & 1x CBL-SAST-0699 & 1x FAN-0156L4	-	Supermicro LP, 8 internal ports (12Gb/s) SAS Mezzanine; RAID 0, 1, 5, 6, 10, 50, 60; 40x40x56 mm 13K-11K RPM Counter-rotating Fan
	AOC-S3108L-H8IR-16DD & 1x CBL-SAST-0699		Standard LP, 8 internal ports (12Gb/s) Gen-3, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i & 1x CBL-SAST-0699		Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD; RAID 0, 1, 10
	AOC-S3008L-L8e & 1x CBL-SAST-0699		Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD; HBA
CacheVault (for 3108)	BTR-CV3108-1U1	1	CacheVault for Broadcom 3108 w with SuperCap mounting in 1U 40x56 fan tray
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05		CacheVault for Broadcom 3108; SuperCap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N		CacheVault for Broadcom 3108; SuperCap mounting bracket for 2.5" HDD location
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® i350AM2
	AOC-SGP-i4		Standard LP, 4x GbE RJ45, PCI-E x4, Intel® i350AM4
	AOC-STGS-i1T		Standard LP, 1x 10GbE RJ45, PCI-E x4, Intel® X550-AT
	AOC-STGS-i2T		Standard LP, 2x 10GbE RJ45, PCI-E x4, Intel® X550-AT2
	AOC-STG-i4T		Standard LP, 4x 10GbE RJ45, PCI-E x8, Intel® XL710-BM1
	AOC-STGN-i1S		Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel® 82598EN
	AOC-STGN-i2S		Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82598ES
	AOC-STG-i4S		Standard LP, 4x 10GbE SFP+, PCI-E x8, Intel® XL710-BM1
	AOC-S25G-b2S		Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom® BCM57414
	AOC-MCX555A-ECAT		Standard LP, 1x 100GbE (and EDR IB) QSFP28, PCI-E x16, Mellanox® ConnectX-5
	AOC-MCX556A-ECAT		Standard LP, 2x 100GbE (and EDR IB) QSFP28, PCI-E x16, Mellanox® ConnectX-5
Front Bezel	CSE-PTFB-813-02	1	Front Bezel w / Round Venting Holes
	CSE-PTFB-813-02B		Black Front Bezel w / Round Venting Holes
Cable Management Arm	MCP-290-00085-0N	1	Supermicro Cable Management Arm for 1U Chassis
TPM security module (optional, not included)	AOM-TPM-9670V	1	SPI capable TPM 2.0 w ith Infineon 9670 controller; vertical form factor
	AOM-TPM-9671V		SPI capable TPM 1.2 w ith Infineon 9670 controller; vertical form factor
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)