

SuperServer 6019P-WT8



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 NVMe M.2 SSD slot

4. 8x 3.5" and 2x 2.5" Fixed drive bays

5. 2 GbE LAN ports via Intel C621

6. 1 VGA, 4 USB 3.0 (rear)

7. 600/650W 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-WT8** ■ SuperServer 6019P-WT8 (**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** ■ 10 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-801STS-656DP

Dimensions and Weight

- Width** ■ 17.2" (437mm)
- Height** ■ 1.7" (43mm)
- Depth** ■ 32" (813mm)
- Package** ■ 23.5" (W) x 7.8" (H) x 40.1" (D)
- Gross Weight** ■ 46 lbs (20.9kg)
- Available Colors** ■ Black

Front Panel

- Buttons** ■ Power On/Off 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 NVMe M.2 SSD 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

- Internal** ■ 8 Fixed 3.5" drive bays
■ 2 Fixed 2.5" drive bays

Backplane

SATA HDD Backplane

System Cooling

- Fans** ■ 6 Counter-rotating 4cm PWM fans

Power Supply

600W/650W Multi-output power supply w / PFC for Rear I/O

- AC Input** ■ 100-127V, 50-60Hz
■ 200-240V, 50-60Hz
- DC Output** ■ +3.3V: 15A (Max.); 0.5A (Min.)
■ +5V: 18A (Max.); 0.5A (Min.)
■ +5V standby: 3A
■ +12V: 49A (100-127Vac)
54A (200-240Vac)
■ -12V: 0.5A

Certification



Platinum Level
[Test Report]

BIOS Type	■ AMI 32Mb SPI Flash ROM
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Management	
Software	■ Intel® Node Manager ■ <u>IPMI 2.0</u> ■ KVM with dedicated LAN ■ <u>SSM, SPM, SUM</u> ■ <u>SuperDoctor® 5</u> ■ Watch Dog

Power Configurations	■ ACPI / APM Power Management
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PC Health Monitoring	
CPU	■ Monitors for CPU Cores, Chipset Voltages, Memory. ■ 4+1 Phase-switching voltage regulator

FAN	■ Fans with tachometer monitoring ■ Status monitor for speed control ■ Pulse Width Modulated (PWM) fan connectors
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Temperature	■ Monitoring for CPU and chassis environment ■ Thermal Control for fan connectors
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Operating Environment

RoHS	■ RoHS Compliant
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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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DDW-L	1	Super X11DDW-L Motherboard
	CSE-801STS-656DP	1	1U Chassis
Backplane	BPN-SAS-801T-A4	2	4-port 1U CSE-801 backplane w ith thermistor and individual HDD power cycle, support up to 4x 3.5-inch HDD/SSD
Storage Cable 1	CBL-0476L	1	MINI SAS-4 SATA,INT,55/45/35/30CM,55CM SB,30AWG
Storage Cable 2	CBL-SAST-0996-1	2	MINI SAS-4 SATA,INT,95 CM
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-2003-QRG	1	6019P-WT8 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-656P-1H	1	1U 600/650W Multi-output pow er supply w ith PMbus RoHS/REACH,PBF
* Power Cord	CBL-0160L	2	NEMA5-15P to C13 US pow er cord 16AWG 6ft, PBF (default for high w att)
* FAN	FAN-0101L4	6	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
* Rail Set	MCP-290-00066-0N	1	Rail set, quick/quick, default for 1U 17.2 SC801S/SC801L

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
Storage Controller Card(s) & Cables(s)	AOM-S3108M-H8 & 2x CBL-SAST-0699	-	Supermicro Low Profile 12Gb/s Eight-Port SAS Internal Mezzanine RAID Adapter, RAID 0, 1, 5, 6, 10, 50, 60
CacheVault (for 3108)	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	1	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
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
2.5" to 3.5" Converter Tray	MCP-240-00145-0N	-	2.5" Fixed HDD Bracket for F414IS, SC816L, SC801S, SC801L,HF
	MCP-220-00134-0N		Tool-less 3.5" fixed HDD bracket for F414IS, 801L/S
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

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
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> • 	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)