

SuperServer 1019P-WTR



Key Features

- DB Processing & Storage
- Data Center Applications

1. Single socket P (LGA 3647) supports Intel® Xeon® Scalable Processors
2. Up to 768GB ECC 3DS LRDIMM, up to DDR4-2666MHz; 6 DIMM slots
3. 2 PCI-E 3.0 x16 (FHFL) slots, 1 PCI-E 3.0 x8 (LP) slot
4. 10 Hot-swap 2.5" SATA3 drive bays; 2 NVMe w/ AOC option
5. 2x 10GBase-T ports with Intel X772 + X557
6. 1 VGA, 2 COM, 2 USB 3.0, 2 USB 2.0
7. 2 SuperDOM (Disk on Module) ports
8. 500W Redundant Platinum Level power supplies

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

Specifications

Product SKUs	
SYS-1019P-WTR	▪ SuperServer 1019P-WTR (Black)
Motherboard	
Super X11SPW-TF	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Single Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors ▪ Support CPU TDP 70-205W
Cores	▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 6 DIMM slots ▪ Up to 768GB ECC 3DS LRDIMM, 192GB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	▪ 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	

Chassis	
Form Factor	▪ 1U Rackmount
Model	▪ CSE-116AC2-R504WB
Dimensions and Weight	
Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 23.5" (597mm)
Package	▪ 24" (W) x 8" (H) x 32" (L)
Weight	<ul style="list-style-type: none"> ▪ Gross Weight: 27 lbs (12.25 kg) ▪ Net Weight: 15.5 lbs (7.03 kg)
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button
LEDs	<ul style="list-style-type: none"> ▪ Power LED ▪ Hard drive activity LED ▪ Network activity LEDs ▪ System Overheat LED

Chipset	▪ Intel® C622 chipset
SATA	▪ SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	▪ Dual 10GBase-T LAN with Intel® X772 + X557
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 (6Gbps) ports
LAN	▪ 2 RJ45 10GBase-T LAN ports ▪ 1 RJ45 dedicated IPMI LAN port
USB	▪ 2 USB 3.0 ports (rear) ▪ 2 USB 2.0 ports (rear)
Video	▪ 1 VGA port
Serial Port / Header	▪ 2 COM ports (1 rear, 1 header)
SuperDOM	▪ 2 <u>SuperDOM</u> (Disk on Module) ports with built-in power

System BIOS

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 ▪ NMI ▪ <u>SPM, SUM</u> ▪ <u>SuperDoctor® 5</u> ▪ Watch Dog
Power Configurations	▪ ACPI / APM Power Management

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
Temperature	▪ Monitoring for CPU and chassis environment ▪ Thermal Control for fan connectors

- Information LED (temp., status)

Expansion Slots

PCI-Express	▪ 2 PCI-E 3.0 x16 (FHFL) slots ▪ 1 PCI-E 3.0 x8 (LP) slot
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Drive Bays

Hot-swap	▪ 10 Hot-swap 2.5" SATA3 drive bays ▪ 2 NVMe with AOC (option)
M.2	▪ M.2 mini-PCI-e support

System Cooling

Fans	▪ 5 counter-rotation 40x56mm PWM fans ▪ 1 fan for AOC cooling (option)
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Power Supply

500W Redundant Power Supplies with PMBus	
Total Output Power	▪ 500W
Dimension (W x H x L)	▪ 54.5 x 40.25 x 320 mm
Input	▪ 100-240Vac, 50-60Hz, 6.1-2.6A
+12V	▪ Max: 42A / Min: 0.5A
+5Vsb	▪ Max: 4A / Min: 0A
Output Type	▪ Gold Finger Connector Mating with Molex 45984-4343
With Power Distributor	▪ +5V: 25A ▪ +3.3V: 12A ▪ -12V: 0.6A
Certification	 UL/cUL/CB/CE/BSMI/CCC Platinum Certified [Test Report]

Operating Environment

RoHS	▪ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ▪ 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-X11SPW-TF	1	Super X11SPW-TF Motherboard
	CSE-116AC2-R504WB	1	1U Chassis
Backplane	BPN-SAS3-116A-N2	1	10-port 1U SAS3 12Gbps Hybrid backplane, support up to 8x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
Cable 1	CBL-0207L	2	SATA,INT,ROUND,ST-ST,59CM,26AWG
Cable 2	CBL-CDAT-0662	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
Cable 3	CBL-SAST-0591	1	MINI SAS HD-4 SATA,6G,INT,RF,Cross Over,75CM,75CM SB,30AWG
Cable 4	CBL-SAST-0657	1	MINI SAS HD(ST)-MINI SAS(RA-RS EXIT),6G,INT,55CM,SB,30AWG
FAN 1	FAN-0101L4	5	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
Manual	MNL-1923-QRG	1	1019P-WTR, QRG,HF,RoHS/REACH
Riser Card	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
Riser Card	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
Heatsink / Retention	SNK-P0067PS	1	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide

Optional Parts List			
	Part Number	Qty	Description
Cables	CBL-SAST-0508-01	-	Internal Mini-SAS to Mini-SAS HD 50cm w/ SB, 30AWG
	CBL-SAST-0532		Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s
	CBL-SAST-0568		Internal Mini-SAS HD to Mini-SAS HD 35cm,30AWG,12Gb/s
NVMe Optional Parts (Complete System Only)	AOC-SLG3-2E4	1	Low Profile 6.4Gb/s Dual-Port NVMe Internal Host Bus Adapter
	CBL-SAST-0590	2	Internal Mini-SAS HD cable for PCIe SSD NVMe, 12Gb/s, 70cm, 30AWG