

SuperServer 1029P-WTR



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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) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 1.5TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 12 DIMM slots
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, 1 PCI-E M.2 SSD slot
4. 8 Hot-swap 2.5" SAS/SATA drive bays
5. Optional 1 slim DVD-ROM drive bay
6. 2 1GbE LAN ports via Intel® X722
7. 1 VGA, 4 USB 3.0 (rear)
8. 2 SuperDOM (Disk on Module) ports
9. 750W Redundant Power Supplies Platinum Level High-efficiency


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

Specifications

Product SKUs	
SYS-1029P-WTR	<ul style="list-style-type: none"> ▪ SuperServer 1029P-WTR (Black)
Motherboard	
<u>Super X11DDW-L</u>	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Dual Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s ▪ Support CPU TDP 70-165W with IVR
Cores	<ul style="list-style-type: none"> ▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 12 DIMM slots ▪ Up to 1.5TB ECC 3DS LRDIMM, 768GB ECC RDIMM, DDR4 up to 2666MHz

Chassis	
Form Factor	<ul style="list-style-type: none"> ▪ 1U Rackmount
Model	<ul style="list-style-type: none"> ▪ <u>CSE-113AC2-R706WB2</u>
Dimensions and Weight	
Width	<ul style="list-style-type: none"> ▪ 17.2" (437mm)
Height	<ul style="list-style-type: none"> ▪ 1.7" (43mm)
Depth	<ul style="list-style-type: none"> ▪ 23.5" (597mm)
Gross Weight	<ul style="list-style-type: none"> ▪ 46 lbs (20.9kg)
Available Colors	<ul style="list-style-type: none"> ▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ UID button
	<ul style="list-style-type: none"> ▪ Power status LED ▪ HDD activity LED

Memory Type	<ul style="list-style-type: none"> 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C621 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> Dual LAN with Gigabit Ethernet from C621
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	<ul style="list-style-type: none"> ASPEED AST2500 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 8 SATA3 (6 Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 4 USB 3.0 ports (rear)
Video	<ul style="list-style-type: none"> 1 VGA port
DOM	<ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) ports
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI 32Mb SPI Flash ROM
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN SSM, SPM, SUM SuperDoctor® 5 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

LEDs	<ul style="list-style-type: none"> Network activity LEDs Universal Information (UID) LED
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 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 M.2 SSD slot <p>(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.)</p>
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 8 Hot-swap 2.5" SAS/SATA drive bays
Peripheral	<ul style="list-style-type: none"> 1 Slim DVD-ROM drive bay (optional)
Backplane	
SAS/SATA HDD Backplane	
System Cooling	
Fans	<ul style="list-style-type: none"> 4 Counter-rotating 4cm PWM fans, 2 fans for cooling AOC
AC/DC240V Input Redundant Power Supply	
700W/750W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 700W/750W
Dimension (W x H x L)	<ul style="list-style-type: none"> 54.5 x 40.25 x 320 mm
Input	<ul style="list-style-type: none"> 100 - 140Vac / 8 - 6A / 50-60Hz 200 - 240Vac / 4.5 - 3.8A / 50-60Hz 200 - 240Vdc / 4.5 - 3.8A (CCC Only)
+12V	<ul style="list-style-type: none"> Max: 58A / Min: 0.5A (100 - 140Vac) Max: 62A / Min: 0.5A (200 - 240Vac) Max: 62A / Min: 0.5A (200 - 240Vdc) (CB/CCC Only)
+5V sb	<ul style="list-style-type: none"> Max: 3A / Min: 0A
Output Type	<ul style="list-style-type: none"> Gold Finger Connector Mating with Molex 45984-4343
Certification	 <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Platinum Certified [Test Report]
Operating Environment	
RoHS	<ul style="list-style-type: none"> 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 - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DDW-L	1	Super X11DDW-L Motherboard
	CSE-113AC2-R706WB2	1	1U Chassis
Backplane	BPN-SAS3-113A-N2	1	8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
Cable 1	CBL-SAST-0507-01	2	MINI SAS HD-MINI SAS,6G,INT,80CM,SB,28AWG
Parts	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
Fan Holder	MCP-320-00061-0B	1	CR foam for air block in SC113/SC116/SC815
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-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-706P-1R	2	1U 750W redundant power width 54.5mm(Platinum),HF,RoHS/REACH,PBF
FAN 1	FAN-0156L4	4	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH

Optional Parts List			
	Part Number	Qty	Description
SAS3 Cable	CBL-SAST-0531	-	Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s, HF,RoHS/REACH,PBF
SuperCap	BTR-TFM8G-LSICVM02	-	SuperCap package
CachVault(s)	BTR-CV3108-1U1	-	Broadcom 3108 CacheVault 1U dummy fan kit
CacheVault Installation Kits	MCP-240-00127-0N	-	SuperCap installation kit for thick 2.5" HDD location
	BKT-BBU-BRACKET-05	-	SuperCap installation kit for PCI-E 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® i350
	AOC-SG-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB
	AOC-SG-i4	-	Standard LP, 4x GbE RJ45, PCI-E x8, Intel® 82576EB
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom® BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel® X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel® 82598EB
Storage Controller Card(s)	AOC-PG-i2+*	-	Proprietary LP, 2x GbE RJ45, PCI-E x4, Intel® 82576EB
	AOC-S3008L-L8e	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD, HBA
	AOC-S3008L-L8i	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S2308L-L8e	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 122HDD, HBA
	AOC-S2308L-L8i	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 63HDD, RAID 0,1,1E
AOC-S2208L-H8iR	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60	
Storage Controller AOM	AOM-S3108M-H8	-	Add-on-Module with LSI 3108, SAS-3/Gen-3 12Gb/ROC
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	QSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)