

# SuperServer 6029P-WTR



## 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. 4 PCI-E 3.0 x8 (FHHL) slots, 2 PCI-E 3.0 x8 (LP) slots, 1 PCI-E 3.0 x16 for Add-on-Module, 1 PCI-E M.2 SSD slot
4. 8 Hot-swap 3.5" SAS/SATA drive bays with SGPIO, 2 Fixed 3.5" drive bays
5. 1 Slim DVD-ROM drive bay (optional)
6. 2x 1GbE LAN ports via Intel C621
7. 1 VGA, 4 USB 3.0 (rear)
8. M.2 support
9. 1000W Redundant Power Supplies Titanium Level (96% Efficiency)

[▶ Drivers & Utilities](#)
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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-6029P-WTR ■ SuperServer 6029P-WTR (Black)

### Motherboard

Super X11DDW-L

### Processor/Cache

CPU ■ Dual Socket P (LGA 3647)  
 ■ Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s  
 ■ Support CPU TDP 70-205W

Cores ■ Up to 28 Cores with Intel® HT Technology

### System Memory

Memory Capacity ■ 12 DIMM slots  
 ■ Up to 1.5TB ECC 3DS LRDIMM, 768GB ECC RDIMM, DDR4 up to 2666MHz

### Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-825TOC-R1K03WB

### Dimensions and Weight

Width ■ 17.2" (437mm)

Height ■ 3.5" (89mm)

Depth ■ 25.5" (648mm)

Gross Weight ■ 62 lbs (28.1 kg)


Available Colors ■ Black

### Front Panel

Buttons ■ Power On/Off button  
 ■ UID button

■ Power status LED  
 ■ HDD activity LED

Memory Type	<ul style="list-style-type: none"> <li>2666/2400/2133MHz ECC DDR4 SDRAM</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C621 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps); RAID 0, 1, 5, 10</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual 1GbE LAN ports from Intel C621</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul>
Video	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Input / Output</b>	
SATA	<ul style="list-style-type: none"> <li>12 SATA3 (6 Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2 RJ45 Gigabit Ethernet ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>4 USB 3.0 ports (rear)</li> </ul>
Video	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
DOM	<ul style="list-style-type: none"> <li>2 SuperDOM (Disk on Module) ports</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>AMI 32Mb SPI Flash ROM</li> </ul>
<b>Management</b>	
Software	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li>IPMI 2.0</li> <li>KVM with dedicated LAN</li> <li>SSM, SPM, SUM</li> <li>SuperDoctor® 5</li> <li>Watch Dog</li> </ul>
Power Configurations	<ul style="list-style-type: none"> <li>ACPI / APM Power Management</li> </ul>
<b>PC Health Monitoring</b>	
CPU	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, Chipset Voltages, Memory.</li> <li>4+1 Phase-switching voltage regulator</li> </ul>
FAN	<ul style="list-style-type: none"> <li>Fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for fan connectors</li> </ul>

LEDs	<ul style="list-style-type: none"> <li>Network activity LEDs</li> <li>Universal Information (UID) LED</li> </ul>
<b>Expansion Slots</b>	
	<ul style="list-style-type: none"> <li>4 PCI-E 3.0 x8 (FHHL) slots</li> <li>2 PCI-E 3.0 x8 (LP) slots</li> <li>1 PCI-E 3.0 x16 for Add-on-Module (AOM)</li> <li>1 PCI-E M.2 SSD slot</li> </ul>
PCI-Express	<p>(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and <a href="#">AOC Support</a> for details.)</p>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>8 Hot-swap 3.5" SAS/SATA drive bays with SGPIO</li> </ul>
Internal	<ul style="list-style-type: none"> <li>2 Fixed 3.5" drive bays</li> </ul>
<b>Peripheral Drives</b>	
DVD-ROM	<ul style="list-style-type: none"> <li>1 Slim DVD-ROM drive (optional)</li> </ul>
<b>Backplane</b>	
SAS/SATA HDD Backplane	
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>3 Heavy duty 8cm fans with PWM fan speed control</li> </ul>
<b>Power Supply (76mm Width)</b>	
1200W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> <li>1000W/1200W</li> </ul>
Dimension (W x H x L)	<ul style="list-style-type: none"> <li>76 x 40 x 336 mm</li> </ul>
Input	<ul style="list-style-type: none"> <li>100-127Vac / 15-12A / 50-60Hz</li> <li>200-240Vac / 8.5-7A / 50-60Hz</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 83A / Min: 0A (100-127Vac)</li> <li>Max: 100A / Min: 0A (200-240Vac)</li> </ul>
+5Vsb	<ul style="list-style-type: none"> <li>Max: 4A / Min: 0A</li> </ul>
Output Type	<ul style="list-style-type: none"> <li>19 Pairs Gold Finger Connector</li> </ul>
Certification	 <p>UL/cUL/CB/BSMI/CE/CCC Titanium Level [ <a href="#">Test Report</a> ]</p>
<b>Operating Environment</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</li> <li>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DDW-L	1	Super X11DDW-L Motherboard
	CSE-825TQC-R1K03WB	1	2U Chassis
Backplane	BPN-SAS3-825TQ	1	8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-SAST-0388L-02	2	MINI SAS-4 SATA,INT,75/75/90/90CM,90CM SB,30AWG
Parts	MCP-150-00015-0B	1	Rubber pad, 3.0mm H, 10x10mm
Parts	MCP-150-00016-0B	1	Rubber pad, 4.5mm H, 10x10mm
Parts	MCP-240-00146-0N	1	2U WIO Half Length riser card bkt for SC825, 826, 213, 216,RoHS/REACH
Air Shroud	MCP-310-82602-0B	1	air shroud X11DDW + CSE-826B
Riser Card	RSC-R2UW-2E8R	1	RSC-R2UW-2E8R-O-P
Riser Card	RSC-R2UW-4E8	1	RSC-R2UW-4E8-O-P
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K03A-1R	2	1U 1000W Redundant Power Supply Titanium W/PMbus 76x365x40mm,RoHS/REACH
FAN 1	FAN-0181L4	3	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 2U+ Chassis

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
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	<a href="#">QS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">QSNBD3/2/1</a>	-	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)

Note: For special low power setup sku only (3 optional parts below), contact our sales for details

Power Supply Dummy Cover	CSE-PT0130L	-	Power Supply Dummy Cover
Power Supply	PWS-609P-1R	-	600W Power Supply Platinum, DC-240V, 76(W)
Fan	FAN-0126L4	-	80x80x38 mm 7K RPM Chassis Middle Fan