

# SuperServer 5019P-WTR



## Key Features

- DB Processing & Storage
- Data Center Applications
- Firewall 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. 4 Hot-swap 3.5" SATA3 drive bays
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 power supplies Platinum Level Certified

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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-5019P-WTR	▪ SuperServer 5019P-WTR (Black)
Motherboard	
Super X11SPW-TF	
Processor/Cache	
CPU	<ul style="list-style-type: none"> <li>▪ Single Socket P (LGA 3647)</li> <li>▪ Intel® Xeon® Scalable Processors</li> <li>▪ Support CPU TDP 70-205W</li> </ul>
Cores	▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>▪ 6 DIMM slots</li> <li>▪ Up to 768GB ECC 3DS LRDIMM, 192GB ECC RDIMM, DDR4 up to 2666MHz</li> </ul>
Memory Type	▪ 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	
Chipset	▪ Intel® C622 chipset
SATA	▪ SATA3 (6Gbps); RAID 0, 1, 5, 10

Chassis	
Form Factor	▪ 1U Rackmount
Model	▪ <a href="#">CSE-815TQC-R504WB</a>
Dimensions and Weight	
Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 25.6" (650mm)
Package	▪ 23.5" (W) x 8.5" (H) x 33.7" (L)
Weight	<ul style="list-style-type: none"> <li>▪ Gross Weight: 48 lbs (21.77 kg)</li> <li>▪ Net Weight: 24 lbs (10.89 kg)</li> </ul>
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power LED</li> <li>▪ Hard drive activity LED</li> <li>▪ Network activity LEDs</li> <li>▪ System Overheat LED</li> <li>▪ Information LED (temp., status)</li> </ul>
Expansion Slots	

<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Dual 10GBase-T LAN with Intel® X772 + X557</li> </ul>
<b>IPMI</b>	<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>
<b>Video</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>10 SATA3 (6Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2 RJ45 10GBase-T LAN ports</li> <li>1 RJ45 dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2 USB 3.0 ports (rear)</li> <li>2 USB 2.0 ports (rear)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>2 COM ports (1 rear, 1 header)</li> </ul>
<b>SuperDOM</b>	<ul style="list-style-type: none"> <li>2 <u>SuperDOM</u> (Disk on Module) ports with built-in power</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>AMI 32Mb SPI Flash ROM</li> </ul>
<b>Management</b>	
<b>Software</b>	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li><u>IPMI 2.0</u></li> <li>KVM with dedicated LAN</li> <li>NMI</li> <li><u>SPM, SUM</u></li> <li><u>SuperDoctor® 5</u></li> <li>Watch Dog</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI / APM Power Management</li> </ul>
<b>PC Health Monitoring</b>	
<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, Chipset Voltages, Memory.</li> <li>4+1 Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<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>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for fan connectors</li> </ul>

<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>2 PCI-E 3.0 x16 (FHFL) slots</li> <li>1 PCI-E 3.0 x8 (LP) slot</li> </ul>
<b>Drive Bays</b>	
<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>4 Hot-swap 3.5" SATA3 drive bays</li> </ul>
<b>M.2</b>	<ul style="list-style-type: none"> <li>M.2 mini-PCI-e support</li> </ul>
<b>System Cooling</b>	
<b>Fans</b>	<ul style="list-style-type: none"> <li>5 Counter-rotation 40x56mm PWM fans</li> <li>1 fan for AOC cooling (option)</li> </ul>
<b>Power Supply</b>	
500W Redundant Power Supplies with PMBus	
<b>Total Output Power</b>	<ul style="list-style-type: none"> <li>500W</li> </ul>
<b>Dimension (W x H x L)</b>	<ul style="list-style-type: none"> <li>54.5 x 40.25 x 320 mm</li> </ul>
<b>Input</b>	<ul style="list-style-type: none"> <li>100-240Vac, 50-60Hz, 6.1-2.6A</li> </ul>
<b>+12V</b>	<ul style="list-style-type: none"> <li>Max: 42A / Min: 0.5A</li> </ul>
<b>+5Vsb</b>	<ul style="list-style-type: none"> <li>Max: 4A / Min: 0A</li> </ul>
<b>Output Type</b>	<ul style="list-style-type: none"> <li>Gold Finger Connector Mating with Molex 45984-4343</li> </ul>
<b>With Power Distributor</b>	<ul style="list-style-type: none"> <li>+5V: 25A</li> <li>+3.3V: 12A</li> <li>-12V: 0.6A</li> </ul>
<b>Certification</b>	 <b>UL/cUL/CB/CE/BSMI/CCC Platinum Certified [ Test Report ]</b>
<b>Operating Environment</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<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
<b>Motherboard / Chassis</b>	MBD-X11SPW-TF	1	Super X11SPW-TF Motherboard
	CSE-815TQC-R504WB	1	1U Chassis
<b>Backplane</b>	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5" SAS3/SATA3 HDD/SSD
<b>Cable 1</b>	CBL-0180L-01	1	SATA,INT,ROUND,SET OF 4,ST-RA 70/59/48/38CM,26AWG
<b>Cable 2</b>	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
<b>Cable 3</b>	CBL-CDAT-0660	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,27CM,28AWG
<b>FAN 1</b>	FAN-0156L4	2	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH
<b>Manual</b>	MNL-1921-QRG	1	5019P-WT/WTR, QRG,HF,RoHS/REACH
<b>Riser Card</b>	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
<b>Riser Card</b>	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
<b>Heatsink / Retention</b>	SNK-P0067PS	1	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Power Supply</b>	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide