

SuperServer 5029P-WTR



Key Features

- DB Processing & Storage
- Connectivity/Storage Computer Nodes
- Data Warehouse

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. 4 PCI-E 3.0 x8 (FHFL) slots, 1 PCI-E 3.0 x8 (LP) slot
4. 8 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 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-5029P-WTR ■ SuperServer 5029P-WTR (Black)

Motherboard

Super X11SPW-TF

Processor/Cache

CPU ■ 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 ■ 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

Chipset ■ Intel® C622 chipset

SATA ■ SATA3 (6Gbps); RAID 0, 1, 5, 10

Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-825TQC-R500WB

Dimensions and Weight

Height ■ 3.5" (89mm)

Width ■ 17.2" (437mm)

Depth ■ 25.6" (650mm)

Package ■ 26.5" (W) x 11" (H) x 34" (L)

Weight ■ Gross Weight: 59 lbs (26.76 kg)
 ■ Net Weight: 34 lbs (15.42 kg)

Available Colors ■ Black



Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button

LEDs ■ Power LED
 ■ Hard drive activity LED
 ■ Network activity LEDs
 ■ System Overheat LED
 ■ Information LED (temp., status)

Expansion Slots

Network Controllers	<ul style="list-style-type: none"> ▪ Dual 10GBase-T LAN with Intel® X772 + X557
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"> ▪ 10 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> ▪ 2 RJ45 10GBase-T LAN ports ▪ 1 RJ45 dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ▪ 2 USB 3.0 ports (rear) ▪ 2 USB 2.0 ports (rear)
Video	<ul style="list-style-type: none"> ▪ 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> ▪ 2 COM ports (1 rear, 1 header)
SuperDOM	<ul style="list-style-type: none"> ▪ 2 <u>SuperDOM</u> (Disk on Module) ports with built-in power
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 ▪ <u>IPMI 2.0</u> ▪ KVM with dedicated LAN ▪ NMI ▪ <u>SPM, SUM</u> ▪ <u>SuperDoctor® 5</u> ▪ 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

PCI-Express	<ul style="list-style-type: none"> ▪ 4 PCI-E 3.0 x8 (FHFL) slots ▪ 1 PCI-E 3.0 x8 (LP) slot
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> ▪ 8 Hot-swap 3.5" SATA3 drive bays
M.2	<ul style="list-style-type: none"> ▪ M.2 mini-PCI-e support
Peripheral Drives	
DVD-ROM	<ul style="list-style-type: none"> ▪ 1 Slim DVD-ROM drive bay
System Cooling	
Fans	<ul style="list-style-type: none"> ▪ 3 Hot-swap 8cm PWM cooling fans
Power Supply with Power Distributor	
500W high-efficiency redundant power supplies with PMBus	
AC Input	<ul style="list-style-type: none"> ▪ 100-240 V, 50-60 Hz, 6.1-2.6 Amp
DC Output	<ul style="list-style-type: none"> ▪ 4 Amp @ +5V standby ▪ 41.7 Amp @ +12V
With Power Distributor	<ul style="list-style-type: none"> ▪ +5V: 30 Amp ▪ +3.3V: 24 Amp ▪ -12V: 0.6 Amp
Certification	  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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SPW-TF	1	Super X11SPW-TF Motherboard
	CSE-825TQC-R500WB	1	1U 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-0228L	3	SATA,INT,ROUND,ST-RA,55CM,26AWG
Cable 2	CBL-0230L	1	SATA,INT,ROUND,ST-RA,65CM,26AWG
Cable 3	CBL-0388L-01	1	MINI SAS-4 SATA (RA),INT,75/75/90/90CM,75CM SB,30AWG
Cable 4	CBL-CDAT-0660	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,27CM,28AWG
Drive Tray(s)	MCP-220-00114-0N	1	Black 2x USB3.0/COM port tray in slim DVD bay,RoHS/REACH
Manual	MNL-1922-QRG	1	QRG,HF,RoHS/REACH
Riser Card	RSC-R2UW-4E8	1	RSC-R2UW-4E8-O-P

Riser Card	RSC-R2UW-E8R-UP	1	2U RHS WIO Riser Card with a PCI-E x8 for UP MBs
Heatsink / Retention	SNK-P0068PS	1	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-501P-1R	2	500W 1U Platinum redundant power supply
FAN 1	FAN-0126L4	3	80x80x38 mm 7K RPM Chassis Middle Fan w/ Housing