

# SuperServer 6029TR-HTR



Views: | [Angled View](#) | [Node View](#) | [Front View](#) | [Rear View](#) |



## Key Applications / Features

- HPC
- Data Center
- Enterprise Server
- Financial Analysis
- Mission-critical applications

Four hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:

1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)<sup>†</sup>
2. 8 DIMMs; up to 2TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM
3. 1 PCI-E 3.0 x16 (LP) slot
4. Dedicated IPMI 2.0 LAN
5. 3 Hot-swap 3.5" SATA3 drive bays
6. 2 SATA DOM + 1 SATA/NVMe M.2 (22110/2280)
7. Up to 1600W Redundant Power Supplies **Titanium Level (96%)**

<a href="#">Drivers &amp; Utilities</a> <a href="#">BIOS</a> <a href="#">IPMI</a> <a href="#">Tested Memory</a> <a href="#">Tested M.2 List</a> <a href="#">Manuals</a> <a href="#">OS Certification Matrix</a> <a href="#">Quick-References Guide</a> <a href="#">Drive Options</a>
<a href="#">Network Card (AOC) Matrix</a>

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

## Specifications ^

### Product SKUs

**SYS-6029TR-HTR** SuperServer 6029TR-HTR (Black)

### Motherboard (Four per System)

#### Super X11DPT-L

### Processor (per Node)

<b>CPU</b>	Dual Socket P (LGA 3647) 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors <sup>†</sup> , Dual UPI up to 10.4GT/s Support CPU TDP 70-140W
<b>Cores</b>	Up to 22 Cores
<b>Note</b>	<sup>†</sup> Processors ending N or S (such as 6230N, 5220S) are not supported
<b>Note</b>	<sup>‡</sup> BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

### System Memory (per Node)

<b>Memory Capacity</b>	8 DIMM slots Up to 2TB 3DS ECC DDR4-2933MHz <sup>†</sup> RDIMM/LRDIMM
<b>Memory Type</b>	2933 <sup>†</sup> /2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
<b>Note</b>	<sup>†</sup> 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

### On-Board Devices (per Node)

<b>Chipset</b>	Intel® C621 chipset
<b>SATA</b>	SATA3 (6Gbps); RAID 0, 1, 5 support
<b>Network Controllers</b>	Intel® C621 chipset
<b>IPMI</b>	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>Graphics</b>	ASPEED AST2500 BMC

### Input / Output (per Node)

<b>SATA</b>	3 SATA3 (6Gbps) ports
<b>LAN</b>	2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
<b>USB</b>	2 USB 3.0 ports total (rear)
<b>VGA</b>	1 VGA port
<b>Serial Port / Header</b>	1 COM Port (1 rear)
<b>Others</b>	TPM 2.0 Header

### System BIOS

**BIOS Type** AMI 32Mb SPI Flash ROM with UEFI

### Management

<b>Software</b>	Intel® Node Manager <a href="#">IPMI 2.0</a> KVM with dedicated LAN NMI <a href="#">SSM</a> , <a href="#">SPM</a> , <a href="#">SUM</a> <a href="#">SuperDoctor® 5</a> Watchdog
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### PC Health Monitoring

<b>CPU</b>	Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
<b>FAN</b>	Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
<b>Temperature</b>	Monitoring for CPU and chassis environment Thermal Control for fan connectors

### Chassis

**Form Factor** 2U Rackmount

**Model** CSE-827HQ-R1K68BP3

### Dimensions and Weight

<b>Width</b>	17.25" (438mm)
<b>Height</b>	3.47" (88mm)
<b>Depth</b>	28.5" (724mm)
<b>Weight</b>	Gross Weight: 73.5 lbs (33.34kg) Net Weight: 52.1 lbs (23.63kg)

**Available Colors** Black

### Front Panel

<b>Buttons</b>	Power On/Off button UID button
<b>LEDs</b>	Power status LED HDD activity LED Network activity LEDs Universal Information (UID) LED

### Expansion Slots (per Node)

**PCI-Express** 1 PCI-E 3.0 x16 Low-profile slot

### Drive Bays / Storage (per Node)

<b>Hot-swap</b>	3 Hot-swap 3.5" SATA3 HDD trays
<b>Others</b>	2 SATA DOM 1 PCI-E 3.0 x4 NVMe or 1 SATA M.2 (22110/2280) support via BPN-ADP-6SATA3M2-1UL <sup>*</sup> M.2 and SuperDOM are for OS boot

### System Cooling

**Fans** 4x 8cm heavy duty PWM fans with optimal fan speed controlled

### Power Supply (76mm Width)

1600W 1U Redundant Power Supplies with PMBus

**Total Output Power** 800W: 100 – 140Vac  
1600W: 180 – 240Vac

**Dimension (W x H x L)** 76 x 40.4 x 336 mm

**Input** 100-140Vac / 10-7A / 50-60Hz  
180-240Vac / 11-8A / 50-60Hz

**+12V** Max: 67A / Min: 0A (100-140Vac)  
Max: 133A / Min: 0A (180-240Vac)

**+5Vsb** Max: 1A / Min: 0A

**Output Type** 27 Pairs Gold Finger Connector

**Certification**

### Operating Environment

**RoHS** RoHS Compliant

**Environmental Spec.** 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
<b>Motherboard / Chassis</b>	MBD-X11DPT-L	4	Super X11DPT-L Motherboard
	CSE-827HQ-R1K68BP3	1	2U Chassis
<b>Backplane</b>	BPN-ADP-6SATA3M2-1UL	4	6 x SATA3 with 6Gb/s,onboard 1 x M.2 . 22x80 mm and 22x110 mm,HF,RoHS
<b>Backplane</b>	BPN-SAS2-827HQ2	1	2U 12-Port 4-Node 6Gbps Backplane Supports 3x3.5
<b>Cable 1</b>	CBL-PWCD-0900	2	PWCD,US/EU/Canada/China/Australia,IEC60320 C14 TO C13,4FT,17AWG
<b>Air Shroud</b>	MCP-310-82722-0B	4	SC827HQ mylar air shroud for on MBD-X11DPT-L-P
<b>Manual</b>	MNL-2163-QRG	1	6029TR-HTR Quick Reference Guide
<b>Riser Card</b>	RSC-R1UTP-E16R	4	1U RHS TwinPro Riser card with one PCI-E x16 slot
<b>Heatsink / Retention</b>	SNK-P0067PS	4	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Heatsink / Retention</b>	SNK-P0067PSM	4	1U Passive CPU Heat Sink with a 26-mm Wide Middle Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Power Supply</b>	PWS-1K68A-1R	2	1U 1600W Redundant Titanium Power Supply 76mm width 27Pair,PBF
<b>FAN 1</b>	FAN-O162L4	4	80x80x38 mm, 13.5K RPM, HCP, LMV, and LPC Cooling Fan,RoHS/REACH

### Optional Parts List

	Part Number	Qty	Description
<b>TPM security module (optional, not included)</b>	AOM-TPM-9670V	1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
<b>TPM security module (optional, not included)</b>	AOM-TPM-9671V	1	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor
<b>Hot-swap 3.5" to 2.5" Hard Disk Drive Tray</b>	MCP-220-00043-0N	-	Black Hot-swap gen 4 3.5" to 2.5" HDD tray
<b>Global Services &amp; Support</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	<a href="#">SFT-OOB-LIC</a> • eStore	1	OOB Management Package (per node license)
<b>Software</b>	<a href="#">SFT-DCMS-Single</a>	1	DataCenter Management Package (per node license)

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