SuperServer 6029TR-HTR





- Drivers & Utilities ▶BIOS ▶IPMI ▶Tested Memory
- ► Tested M.2 List ► Manuals ► OS Certification Matrix ► Quick-References Guide ► Drive Options ► Network Card (AOC) Matrix

Key Features

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

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

- Dual Socket P (LGA 3647) support 2nd Gen. Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[‡]
- 2. 8 DIMMs; up to 2TB 3DS ECC DDR4-2933MHz[†] 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%)

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

Specifications

Product SKUs

SYS-6029TR-

SuperServer 6029TR-HTR (Black)

HTR

Motherboard (Four per System

Super X11DPT-L

Processor/Cache (per Node)

CPU

- Dual Socket P (LGA 3647)
 2nd Gen. Intel® Xeon® Scalable
 Processors (Cascade Lake/Skylake)[‡],
- Dual UPI up to 10.4GT/s

 Support CPU TDP 70-140W

Cores

■ Up to 22 Cores with Intel® HT Technology

Note

[‡] BIOS version 3.0a or above is required to support 2nd Gen. Intel® Xeon® Scalable processors

System Memory (per Node)

Memory Capacity 8 DIMM slots

■ Up to 2TB 3DS ECC DDR4-2933MHz[†]

Form Factor	■ 2U Rackmount	
Model	■ CSE-827HQ-R1K68BP3	

Dimensions a	and Weight	
Width	■ 17.25" (438mm)	
Height	■ 3.47" (88mm)	
Depth	■ 28.5" (724mm)	
Weight	Gross Weight: 73.5 lbs (33.34kg)Net Weight: 52.1 lbs (23.63kg)	
Available Colors	■ Black	

Front Pane

Buttons

LEDs

- Power On/Off buttonUID button
- Power status LED
- HDD activity LED

Network activity LEDsUniversal Information (UID) LED

	RDIMM/LRDIMM	Expansion Slots (per Node)
Memory Type	 2933[†]/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM 	PCI- Express 1 PCI-E 3.0 x16 Low-profile slot
Note	[†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro	Drive Bays / Storage (per Node) Hot-swap 3 Hot-swap 3.5" SATA3 HDD trays
On-Board Dev	ices (per Node)	■ 2 SATA DOM ■ 1 PCI-E 3.0 x4 NVMe or 1 SATA M.2
Chipset	■ Intel® C621 chipset	Others (22110/2280) support via BPN-ADP-
SATA	SATA3 (6Gbps); RAID 0, 1, 5 support	6SATA3M2-1UL
Network Controllers	■ Intel® C621 chipset	* M.2 and SuperDOM are for OS boot
IPMI	 Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support 	System Cooling Fans 4x 8cm heavy duty PWM fans with optimal fan speed controlled
Graphics	■ ASPEED AST2500 BMC	Power Supply (76mm Width)
		1600W 1U Redundant Power Supplies with PMBus
Input / Output	(per Node)	Total
SATA	3 SATA3 (6Gbps) ports	Output 800W/1600W
LAN	2 RJ45 Gigabit Ethernet LAN ports1 RJ45 Dedicated IPMI LAN port	Power Dimension 76 x 40.4 x 336 mm
USB	■ 2 USB 3.0 ports total (rear)	(W x H x L) 70 x 40.4 x 330 mm
VGA Serial Port	■ 1 VGA port	Input = 100-140Vac / 10-7A / 50-60Hz = 180-240Vac / 11-8A / 50-60Hz
/ Header	■ 1 COM Port (1 rear)	+12V
Others	TPM 2.0 Header	+5Vsb • Max: 1A / Min: 0A
System BIOS		Output Type 27 Pairs Gold Finger Connector
BIOS Type Management	AMI 32Mb SPI Flash ROM with UEFI	Certification Certification
	Intel® Node ManagerIPMI 2.0	
	KVM with dedicated LAN	Operating Environment
Software	• NMI	RoHS RoHS Compliant
	 SSM, SPM, SUM SuperDoctor® 5 Watchdog 	■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) ■ Non-operating Temperature: Environmental -40°C to 60°C (-40°F to 140°F)
PC Health Mor	nitoring	Spec. • Operating Relative Humidity:
CPU	 Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator 	8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
FAN	 Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors 	
Temperature	 Monitoring for CPU and chassis environment Thermal Control for fan connectors 	

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPT-L CSE-827HQ-R1K68BP3	4 1	Super X11DPT-L Motherboard 2U Chassis
Backplane	BPN-ADP-6SATA3M2- 1UL	4	6 x SATA3 with 6Gb/s,onboard 1 x M.2 . 22x80 mm and 22x110 mm,HF,RoHS
Backplane	BPN-SAS2-827HQ2	1	2U 12-Port 4-Node 6Gbps Backplane Supports 3x3.5" SATA3/SAS2 HDD per Node

Cable 1	CBL-PWCD-0900	2	PWCD,US/EU/Canada/China/Australia,IEC60320 C14 TO C13,4FT,17AWG
Air Shroud	MCP-310-82722-0B	4	SC827HQ mylar air shroud for on MBD-X11DPT-L-P
Riser Card	RSC-R1UTP-E16R	4	1U RHS TwinPro Riser card with one PCI-E x16 slot
Heatsink / Retention	SNK-P0067PS	4	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	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
Power Supply	PWS-1K68A-1R	2	1U 1600W Redundant Titanium Power Supply 76mm width 27Pair,PBF
FAN 1	FAN-0162L4	4	80x80x38 mm, 13.5K RPM, HCP, LMV, and LPC Cooling Fan,RoHS/REACH

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