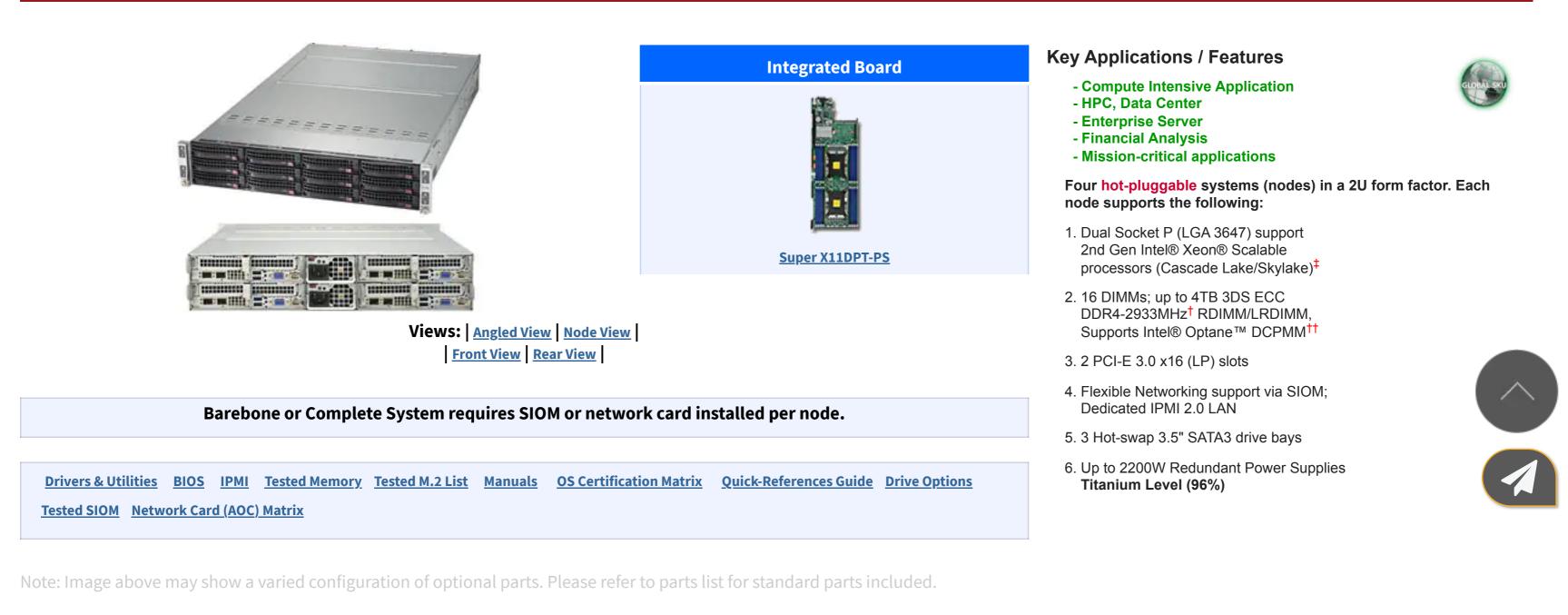


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SuperServer 6029TP-HTR



Specifications ^

Product SKUs	Chassis
SYS-6029TP-HTR SuperServer 6029TP-HTR (Black) Motherboard (Four per System)	Form Factor 2U Rackmount Model CSE-827HQ+-R2K20BP2
Super X11DPT-PS	Dimensions and Weight
Processor (per Node)	Width 17.25" (438mm)

neight		
Depth	CPU Dual Socket P (LGA 3647) 2nd Gen Intel [®] Xeon [®] Scalable Processors and Intel [®] Xeon [®]	
Weight	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors [‡] ,	
	Dual UPI up to 10.4GT/s	
Available Colors	Support CPU TDP 70-165W*	
Front Panel	Up to 28 Cores	Cores
Buttons	* Please contact Supermicro Technical Support for supporting conditions of high power (TDP 150W and above) or high base	Note
	frequency (3.0 GHz and above) processors.	
LEDs	Processors ending N or S are optimized for networking and storage applications. Customer need POC their application and observe any thermal throttling before large deployment.	Note
Expansion Slots (per Node)	[‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)	Note
		System Memory (per Node)
PCI-Express		
	16 DIMM slots Up to 4TB 3DS ECC DDR4-2933MHz [†] RDIMM/LRDIMM Supports Intel® Optane™ DCPMM ^{††}	Memory Capacity
	2933 [†] /2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM	Memory Type
	[†] 2933MHz in two DIMMs per channel can be achieved by using	Note
Drive Bays (per Node)	memory purchased from Supermicro ^{††} Cascade Lake only. Contact your Supermicro sales rep for	
Hot-swap	more info.	
System Cooling)	On-Board Devices (per Node
Fana	Intel [®] C621 chipset	Chipset
Fans	SATA3 (6Gbps); RAID 0, 1, 5 support	SATA
Power Supply	Barebones and Complete System must have at least one	Network Controllers
2200W Redundant Power Su	SIOM or <u>network</u> card installed per node	
Total Output Power and Input	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	IPMI
	ASPEED AST2500 BMC	Graphics
		nput / Output (per Node)
AC Input Frequency	3 SATA3 (6Gbps) ports	SATA
Dimension	1 RJ45 Dedicated IPMI LAN port	LAN
(W x H x L)	2 USB 3.0 ports total (rear)	USB
+12V	1 VGA port	VGA
	1 Fast UART 16550 port / 1 Header (internal)	Serial Port / Header
	2 <u>SuperDOM</u> support on the motherboard	Others
5VSB	1 NVMe or 2 SATA M.2 (22x80/60/42 mm) support with option	
JV3B	part: AOC-SMG3-2H8M2	

Width	17.25" (438mm)		
Height			
Depth	a 30.5" (774mm)		
Weight	Gross Weight: 90 lbs (40.9kg) Net Weight: 72 lbs (32.7 kg)		
Available Colors	Black		
nt Panel			
Buttons	Power On/Off button UID button		
LEDs	Power status LED HDD activity LED Network activity LEDs Universal Information (UID) LED		
oansion Slots (per Node)			
PCI-Express	2 PCI-E 3.0 x16 Low-profile slots 1 SIOM card support		
	Note: Barebones and Complete System must bundle with Network Card		
	(With only one CPU installed, SXB2 M.2 and SXB4 riser car slots not function)		
ve Bays (per Node)			
Hot-swap	3 Hot-swap 3.5" SATA3 HDD trays		
tem Cooling			
Fans	4 Heavy duty 8cm PWM fans with optimal fan speed control		
wer Supply			
0W Redundant Power Sup	plies with PMBus		
Fotal Output Power and Input	1200W with Input 100-127Vac 1800W with Input 200-220Vac 1980W with Input 220-230Vac 2090W with Input 230-240Vac 2200W with Input 220-240Vac (for UL/cUL use only) 2090W with Input 230-240Vdc (for CCC only)		
AC Input Frequency	50-60Hz		
Dimension (W x H x L)	76 x 40 x 336 mm		
+12V	Max: 100A / Min: 0A (100-127Vac)		

MILE ATTU SUPERDOM ATE TOT OS DOOL ATTU LITEY CATITOL COEXISC

Backplanes (gold finger) Output Type

Certification

80 7 Titanium Level

Max: 1A / Min: 0A

Max: 150A / Min: 0A (200-220Vac) Max: 165A / Min: 0A (220-230Vac)

Max: 174.17A / Min: 0A (230-240Vac) Max: 183.3A / Min: 0A (220-240Vac)

	System BIOS		Certification	Itanium Level [Test Report]
	BIOS Type	AMI 32MB SPI Flash ROM	Operating Environment	
	Management			
l	Software	Intel [®] Node Manager	RoHS	RoHS Compliant
	Power Configurations PC Health Monitoring	IPMI 2.0 KVM with dedicated LAN NMI <u>SSM, SPM, SUM</u> <u>SuperDoctor® 5</u> Watchdog ACPI Power Management	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)
	CPU	Monitors for CPU Cores, Chipset Voltages, Memory. 5+1 Phase-switching voltage regulator		
	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		
	Omni-Path Fabric CPUs	Do not support		

Parts List ^

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis		4	Super X11DPT-PS Motherboard
	CSE-827HQ+-R2K20BP2	1	2U Chassis
Backplane	BPN-ADP-6SATA3P	4	Backplan adapter card; 6SATA ports,RoHS/REACH,PBF
Backplane	BPN-SAS3-827HQ2	1	2U 12-Port 4-Node Backplane Supports 3x3.5
Cable 1	CBL-PWCD-0578	2	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG
Parts	MCP-240-82715-0N	1	TwinPro SC827HQ+ BPN retention bracket assembly
Air Shroud	MCP-310-21716-0B	4	Twinpro X11 air shroud
Riser Card	RSC-P-6	4	RSC-P-6 (1U LHS TwinPro RSC with 1 PCI-Ex16),RoHS
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-2K20A-1R	2	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm
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
Add-on-Card	AOC-SMG3-2H8M2	-	AOC supports 2280 M.2 form factor SSD (1 NVMe or 2 SATA), FST-SCRW-0121L is included in AOC-SMG3-2H8M2
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	<u>OS4HR3/2/1</u> <u>OSNBD3/2/1</u>	-	3/2/1-year onsite 24x7x4 service 3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

Global SKU 🌐 English

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