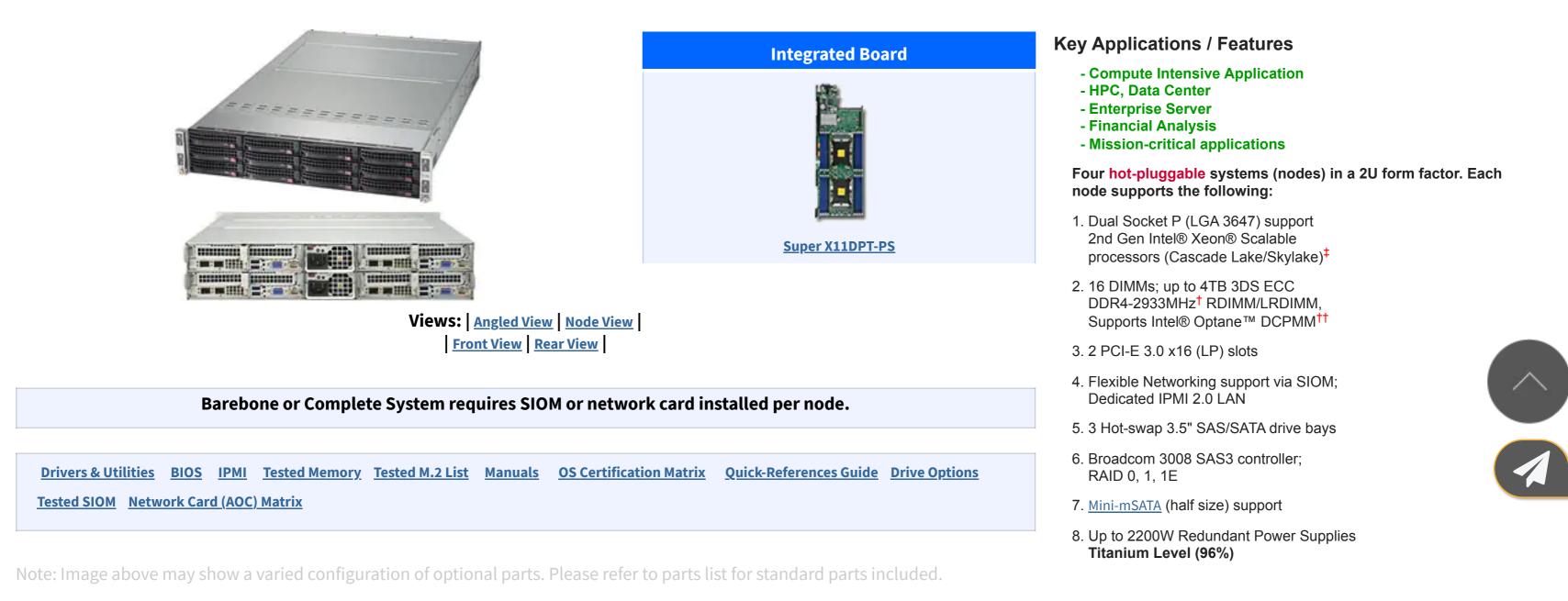


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SuperServer 6029TP-HC0R



Specifications ^

Product SKUs Chassis SuperServer 6029TP-HC0R (Black) 2U Rackmount SYS-6029TP-HCOR **Form Factor** CSE-827HQ+-R2K20BP2 Model Motherboard (Four per System) **Dimensions and Weight** Super X11DPT-PS **Processor (per Node)**

CPU	Dual Socket P (LGA 3647) 2nd Gen Intel [®] Xeon [®] Scalable Processors and Intel [®] Xeon [®] Scalable Processors [‡] , Dual UPI up to 10.4GT/s Support CPU TDP 70-165W [*]
Cores	Up to 28 Cores
Note	* Please contact Supermicro Technical Support for supporting conditions of high power (TDP 150W and above) or high base frequency (3.0 GHz and above) processors.
Note	*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	[‡] BIOS version 3.2 or above is required to support 2nd Gen Intel [®] Xeon [®] Scalable processors (codenamed Cascade Lake-R)
System Memory (per Node)	
Memory Capacity	16 DIMM slots Up to 4TB 3DS ECC DDR4-2933MHz [†] RDIMM/LRDIMM Supports Intel® Optane™ DCPMM ^{††}
Memory Type	2933 [†] /2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
Note	 [†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro ^{††} Cascade Lake only. Contact your Supermicro sales rep for more info.
On-Board Devices (per Node)
Chipset	Intel [®] C621 chipset
SAS	Broadcom 3008 SAS3 (12Gbps) controller; RAID 0, 1, 1E support
Network Controllers	Barebones and Complete System must have at least one <u>SIOM</u> or <u>network</u> card installed per node
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	ASPEED AST2500 BMC
Input / Output (per Node)	
SAS	3 SAS3 (12Gbps) ports
LAN	1 RJ45 Dedicated IPMI LAN port
USB	2 USB 3.0 ports total (rear)
VGA	1 VGA port
Serial Port / Header	1 Fast UART 16550 port / 1 Header (internal)
Others	2 <u>SuperDOM</u> support on the motherboard 1 NVMe or 2 SATA M.2 (22x80/60/42 mm) support with option part: AOC-SMG3-2H8M2

Width	17.25" (438mm)
Height	3.47" (88mm)
Depth	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
ansion 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 card slots not function)
e Bays (per Node)	
Hot-swap	3 Hot-swap 3.5" SAS/SATA HDD trays
em Cooling	
Fans	4 Heavy duty 8cm PWM fans with optimal fan speed control
er Supply	
W Redundant Power Sup	plies with PMBus
otal 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) 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)

M.2 and SuperDOM are for OS boot and they cannot coexist

Certification

Output Type

5VSB



Backplanes (gold finger)

Max: 1A / Min: 0A

System BIOS			[Test Report]
BIOS Type	AMI 32MB SPI Flash ROM	Operating Environment	
Management		RoHS	RoHS Compliant
Software Power Configurations	Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SSM, SPM, SUM SuperDoctor® 5 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)
PC Health Monitoring			
CPU FAN	Monitors for CPU Cores, Chipset Voltages, Memory. 5+1 Phase-switching voltage regulator 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	Inc	lud	ed)	

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPT-PS	4	Super X11DPT-PS Motherboard
	CSE-827HQ+-R2K20BP2	1	2U Chassis
Backplane	BPN-ADP-S3008L-L6IP	4	LSI 3008, SAS 12Gbs (X6 port inside)
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)		1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor	
TPM security module (optional, not included)		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		-	Black Hot-swap gen 4 3.5" to 2.5" HDD tray	
Global Services & Support	OS4HR3/2/1 OSNBD3/2/1	-	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)	

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