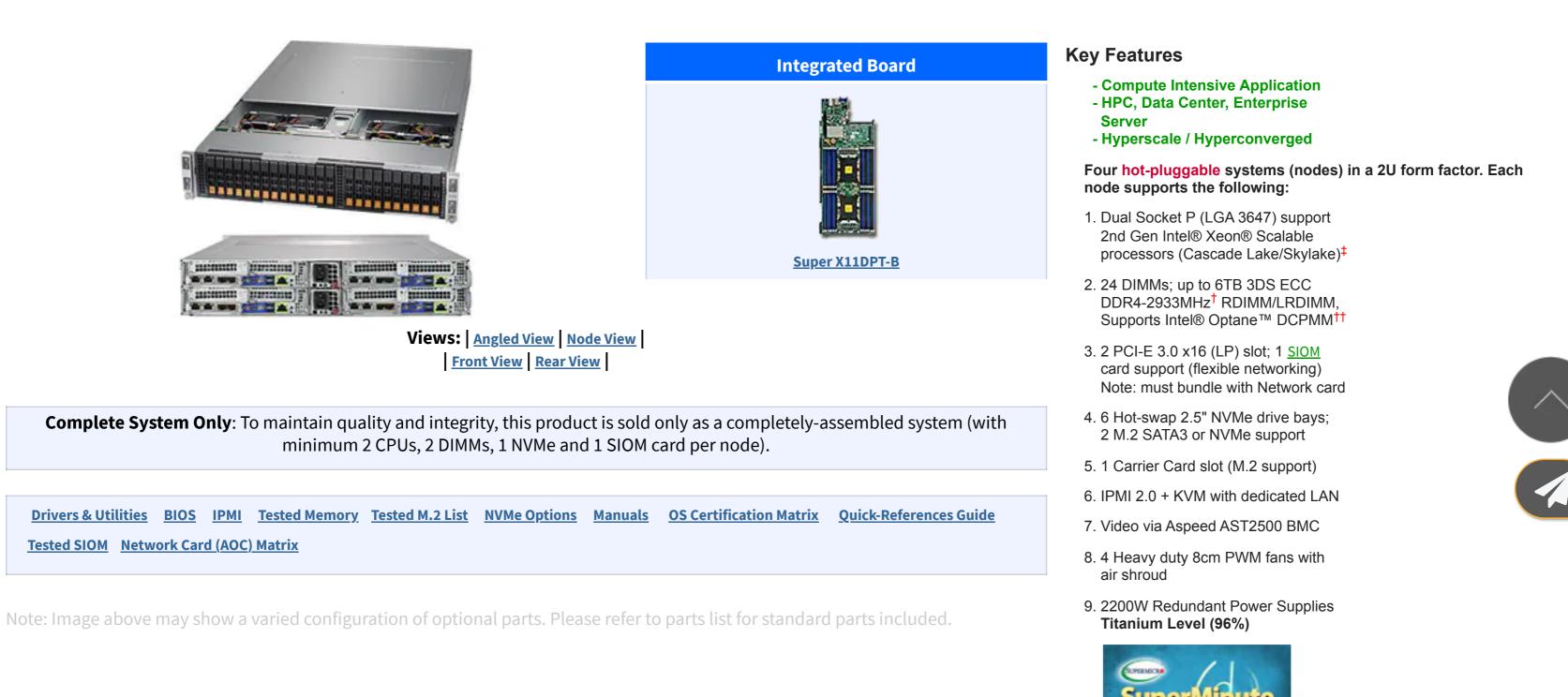


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# SuperServer 2029BT-HNR (Complete System Only)

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# Specifications ^

Product SKUs	Chassis	
SYS-2029BT-HNR SuperServer 2029BT-HNR (Black)	Form Factor 2U Rackmount	
Motherboard	Model CSE-217BHQ+-R2K22BP2	

**Dimensions and Weight** 

#### Super X11DPT-B

#### **Processor (per Node)** CPU Dual Socket P (LGA 3647) 2nd Gen Intel<sup>®</sup> Xeon<sup>®</sup> Scalable Processors and Intel<sup>®</sup> Xeon<sup>®</sup> Scalable Processors<sup>‡</sup>, Dual UPI up to 10.4GT/s Support CPU TDP 70-205W\* Cores Up to 28 Cores \* 200W/205W CPUs are supported under certain Note configurations. Please contact Supermicro Technical Support for additional information about specialized system optimization <sup>‡</sup> BIOS version 3.2 or above is required to support 2nd Gen Note Intel<sup>®</sup> Xeon<sup>®</sup> Scalable processors (codenamed Cascade Lake-R). Extended thermal solutions may be required to support CPUs higher than 165W TDP, please contact Supermicro Technical Support for additional information. System Memory (per Node) Memory Capacity 24 DIMM slots Up to 6TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM Supports Intel<sup>®</sup> Optane<sup>™</sup> DCPMM<sup>††</sup> 2933<sup>†</sup>/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM Memory Type <sup>†</sup> 2933MHz in two DIMMs per channel can be achieved by using Note memory purchased from Supermicro <sup>††</sup> Cascade Lake only. Contact your Supermicro sales rep for more info. **On-Board Devices** Intel<sup>®</sup> C621 chipset Chipset Must bundle with at least one SIOM network card Network Support for Intelligent Platform Management Interface v.2.0 IPMI IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Video ASPEED AST2500 BMC Input / Output (per Node) 1 RJ45 Dedicated IPMI LAN port LAN 2 USB 3.0 ports (rear) USB Video 1 VGA port 1 Super<u>DOM</u> (Disk on Module) port DOM M.2 and SATA DOM for boot drive only Others

#### 17.6" (447mm) Width 3.47" (88mm) Height 28.75" (730mm) Depth 24.65" (H) x 9.76" (W) x 45.28" (D) Package Gross Weight: 85 lbs (38.6kg) Weight Net Weight: 54.5 lbs (24.7 kg) **Available Colors** Black **Front Panel** Power On/Off button Buttons **UID** button Power status LED LEDs HDD activity LED Network activity LEDs Universal Information (UID) LED **Expansion Slots (per Node)** 2 PCI-E 3.0 (x16) Low-profile slots **PCI-Express** 1 <u>SIOM</u> card support (must bundle with network card) **Drive Bays / Storage (per Node)** 6 Hot-swap 2.5" NVMe drive bays Hot-swap 2 M.2 NVMe or SATA (2240/2260/2280) via optional AOC-**M.2** SMG3-2H8M2-B System Cooling 4 Heavy duty 8cm PWM fans with air shroud Fans **Power Supply** 2200W Redundant Power Supplies with PMBus 1200W/1800W/1980W/2090/2200W **Total Output Power** Dimension 45 x 40 x 480 mm $(W \times H \times L)$ Input 1200W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2090W: 230-240Vac / 50-60Hz 2090W: 180-220Vac (for UL/cUL only) 2200W: 220-240Vac (for UL/cUL only) 2090W: 230-240Vdc (for CCC only)

+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: 174.17A / Min: 0A (180-220Vac, UL/cUL only) Max: 192 220 / Min: 04 (220 240)/ac 111 /cl11 only)

BIOS Type	AMI 32Mb SPI Flash ROM		Max: 183.33A / Min: 0A (220-240Vac, UL/cUL only) Max: 174.17A / Min: 0A (230-240Vdc, CCC only)	
Management		12Vsb	Max: 2.1A / Min: 0A	
Software Intel <sup>®</sup> Node Manager IPMI 2.0 KVM with dedicated LAN	Output Type Certification	Gold Finger    Image: Solution of the second system   Image: Solution		
	<u>SSM</u> , <u>SPM</u> , <u>SUM</u> <u>SuperDoctor® 5</u> Watch Dog	<b>Operating Environment</b>		
<b>Power Configurations</b>	ACPI / APM Power Management	RoHS	RoHS Compliant	
PC Health Monitoring		Environmental Spec.	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)	
CPU	Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator	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)		
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)

System BIOS

	Part Number	Qty	Description
Motherboard / Chassis		4	Super X11DPT-B Motherboard
	CSE-217BHQ+-R2K22BP2	1	2U Chassis
Backplane	BPN-ADP-6NVME3-1UB	4	6x NVMe ports and 50A power sourcing daughter card for Big Twin
Backplane	BPN-NVME3-217BHQ	1	2U 24-Port 4-Node NVMe Backplane Support 6x2.5
Cable 1	CBL-PWCD-0578	2	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG
Drive Tray(s)	MCP-220-00127-0B-BULK	24	Black gen3 Hotswap 2.5 NVMe drive tray, Orange tab/Lock/Bulk
Parts	MCP-240-21721-0N	1	217B BigTwin type I (Impact) BPN retention bkt assy
Air Shroud	MCP-310-21718-0B	4	Bigtwin air box for X11DPT-B(4pcs/set)
Air Shroud	MCP-310-21724-0B	4	Bigtwin 2U4N plastic air shroud (2pcs) for Cascade lake MB
Manual	MNL-1948-QRG	1	2029BT-H(N/T/NC0)R Quick Reference Guide
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-2K22A-1R	2	1U 2200W Redundant Power Supply Titanium, 45(W) X 40(H) X 48

Description

TPM security module	<u>AOM-TPM-9670H-S</u>	1	SPI Capable TPM 2.0 Provisioned for Server, Horizontal Form Factor
TPM security module	<u>AOM-TPM-9671H-S</u>	1	SPI Capable TPM 1.2 Provisioned for Server, Horizontal Form Factor
Intel VROC RAID Key	AOC-VROCINTMOD AOC-VROCSTNMOD AOC-VROCPREMOD	1 1 1	Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only) Intel VROC Standard, RAID 0, 1, 10 Intel VROC Premium, RAID 0, 1, 5, 10
<b>Global Services &amp; Support</b>	<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 • @Store	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]
Network Card(s)	AOC-S40G-i2Q AOC-SGP-i2 AOC-SGP-i4 AOC-STG-b4S AOC-STGN-i2S AOC-STGN-i1S AOC-STG-i2T AOC-STG-i2	- - - - -	Standard LP 2-port 40GbE controller, based on Intel Fortville XL710 Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350AM2 Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350 Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel 82599EN Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel 82598EB
Carrier Card(s)	AOC-SMG3-2H8M2-B AOC-SMG2-2TM2	-	2x Hybrid NVMe/SATA M.2 carrier for BigTwin,HF,RoHS 2x SATA M.2 RAID 1 adapter for BigTwin,HF,RoHS

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