## **SuperServer 2029BT-DNC0R (Complete System Only)**



## **Integrated Board Super X11DPT-B**

Views: | Angled View | Node View | Front View Rear View

**Complete System Only:** To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum 2 CPUs, 2 DIMMs, 1 HDD/NVMe and 1 SIOM card per node).

<u>Drivers & Utilities</u> <u>BIOS</u> <u>IPMI</u> <u>Tested Memory</u> <u>Tested M.2 List</u> <u>NVMe Options</u> <u>Manuals</u> <u>OS Certification Matrix</u> **Drive Options** Tested SIOM **Network Card (AOC) Matrix** 

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

**Key Applications / Features** 

- Compute Intensive Application

- HPC, Data Center, Enterprise Server - Hyperscale / Hyperconverged

Two 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)‡

2. 24 DIMMs; up to 6TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM<sup>††</sup>

3. 2 PCI-E 3.0 x8 slot, 1 PCI-E 3.0 x16, 1 <u>SIOM</u> card support (flexible networking) Note: must bundle with Network card

2.5" drive bays; 2 internal M.2 NVMe/SATA slots

4. 4 NVMe/SAS3 + 8 SAS3 Hot-swap

IT mode

5. SAS3 support via Broadcom 3216;

6. IPMI 2.0 + KVM with dedicated LAN 7. Video via Aspeed AST2500 BMC

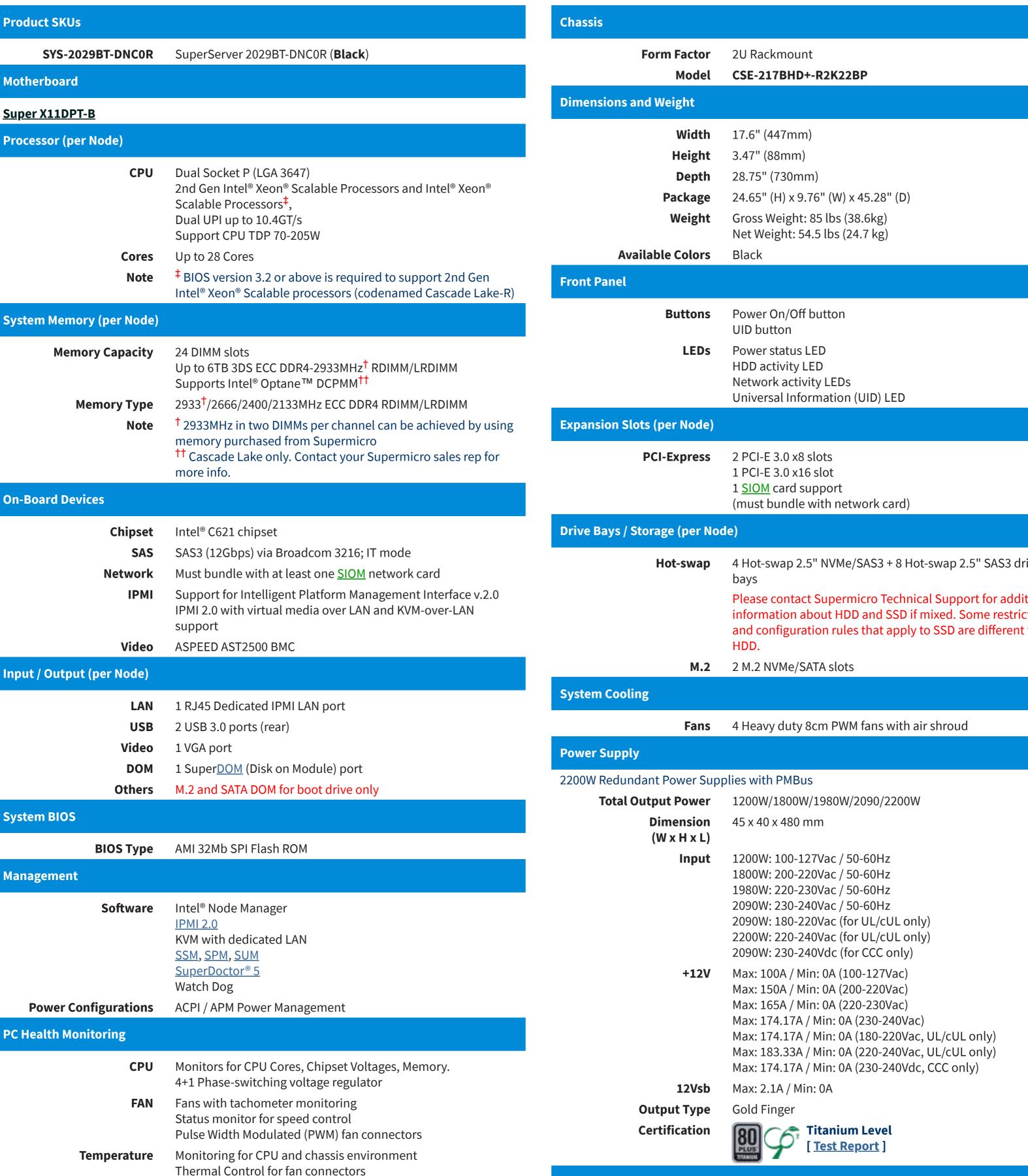
8. 4 Heavy duty 8cm PWM fans with

air shroud

9. 2200W Redundant Power Supplies Titanium Level (96%)

Print

Specifications ^



4 Hot-swap 2.5" NVMe/SAS3 + 8 Hot-swap 2.5" SAS3 drive Please contact Supermicro Technical Support for additional information about HDD and SSD if mixed. Some restrictions and configuration rules that apply to SSD are different from

**RoHS Compliant** 

Operating Temperature:

10°C ~ 35°C (50°F ~ 95°F)

**Environmental Spec.** 

**RoHS** 

**Operating Environment** 

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)

**Description** 

Qty

Parts List ^

Motherboard / Chassis  MBD-X11DPT-B  CSE-217BHD+-R2K22BP  Backplane  BPN-ADP-12S3216N4-2UB  BPN-SAS3-217BHQ-N4  Cable 1  CBL-PWCD-0578  MBD-X11DPT-B Motherboard  2	2.5\" SATA3/SAS3 SSD/HDD and 4x2.5\"
BackplaneBPN-ADP-12S3216N4-2UB2NVMe backplane adapter for 2U2N hybrid by a company of the company	2.5\" SATA3/SAS3 SSD/HDD and 4x2.5\"
Backplane BPN-SAS3-217BHQ-N4 1 2U 4-Node 24-Port Backplane Supports 2x2 SATA3/SAS3/NVMe storage Media per Node  Cable 1 CBL-PWCD-0578 2 PWCD,US,IEC60320 C14 TO C13,3FT,14AWG	2.5\" SATA3/SAS3 SSD/HDD and 4x2.5\"
SATA3/SAS3/NVMe storage Media per Node  Cable 1 CBL-PWCD-0578 2 PWCD,US,IEC60320 C14 TO C13,3FT,14AWG	e
<b>Drive Tray(s)</b> MCP-220-00141-0B-BULK 16 Black Gen3 hot-swap 2.5 inch HDD tray with	th lock improved EMI
<b>Drive Tray(s)</b> MCP-220-00144-0B-BULK 8 Black Gen3 hot-swap 2.5 inch HDD tray with	th lock, orange tab
Parts MCP-240-21730-0N 1 217B BigTwin type I (Impact) BPN retention	n bkt w/ foam assy
Air Shroud MCP-310-21725-0B 2 Bigtwin 2U2N plastic air shroud for Cascade	le lake MB
Manual MNL-2011-QRG 1 2029BT-D(N/NC0)R Quick Reference Guide	
Riser Card RSC-P2-88 2 2U LHS TwinPro Riser card with two standa	ard PCI-E x8 slots,H
Heatsink / Retention SNK-P0068PS 2 2U Passive CPU Heat Sink for X11 Purley Pla	atform Equipped with a Narrow Retention Mechanism
Heatsink / RetentionSNK-P0069PS21.5U Proprietary 50-mm Tall Front Passive Of Series Servers	CPU Heat Sink for X11 Purley Platform 2U Node Twin
<b>Fan</b> FAN-0162L4 4 80x80x38 mm, 13.5K RPM, HCP, LMV, and LI	.PC Cooling Fan
Power Supply PWS-2K22A-1R 2 1U 2200W Redundant Power Supply Titaniu	um, 45(W) X 40(H) X 48
Optional Parts List	
Part Number Qty Description	
<b>Fan</b> FAN-0191L4 - 80x80x38 mm, 14.9K RPM, Non-hot-swa performance)	appable Middle Cooling Fan (Optimal for computational

	Part Number	Qty	Description
Fan	FAN-0191L4	-	80x80x38 mm, 14.9K RPM, Non-hot-swappable Middle Cooling Fan (Optimal for computational performance)
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
	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
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 • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]
	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 X540 Standard LP, 2x 10GbE CX4, PCI-E x8, Intel 82598EB







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**Parts List - (Items Included)** 

**Part Number** 

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