



BigTwin™

The IT Industry's Highest Performing Twin Multi-Node System

Each node supports • Dual Intel® Xeon® Scalable Processors • Up to 3TB DDR4 memory in 24 DIMM slots
• SIOM networking • NVMe/SAS3/SATA3 options • Redundant 2200W Titanium Level power supplies

• Redundant 2600W/2200W Titanium Level Power Supplies

• Dual Intel® Xeon® Scalable Processors

• 24 DIMM Slots DDR4

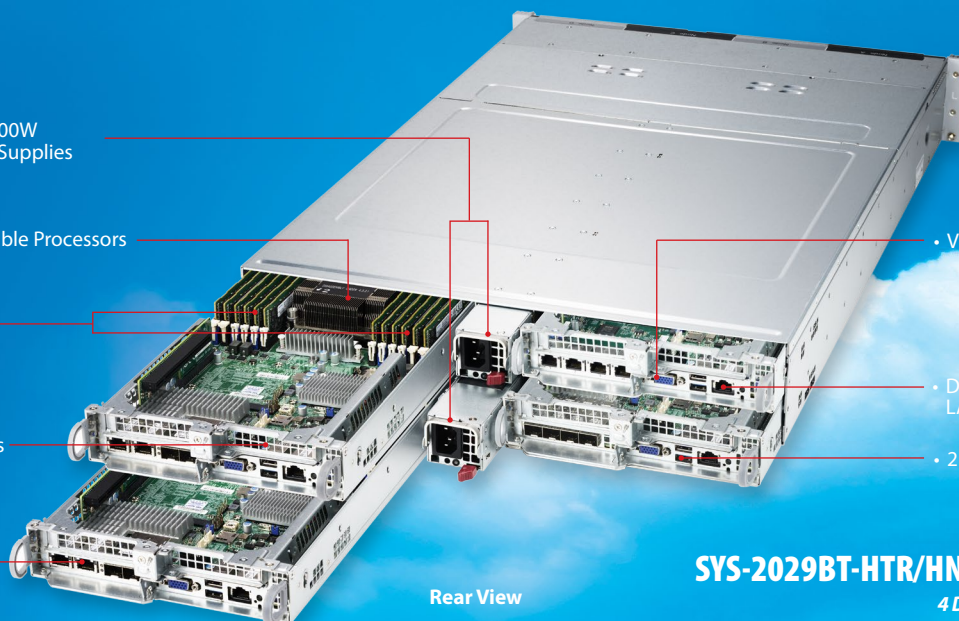
• 2 PCI-E 3.0 x16 LP Slots

• SIOM Slot

• VGA Port

• Dedicated IPMI/KVM LAN Port

• 2 USB 3.0 Ports



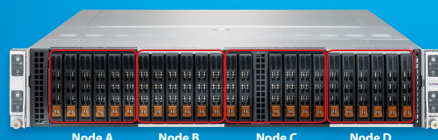
Rear View

SYS-2029BT-HTR/HNR/HNCOR

4 DP Nodes in 2U

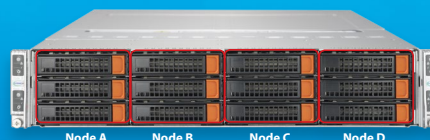
24/12x 2.5"/3.5" NVMe/SAS3/SATA3 drives

4 DP Nodes in 2U
(2.5" drives)



Node A Node B Node C Node D

4 DP Nodes in 2U
(3.5" drives)



Node A Node B Node C Node D

Front View

SIOM Networking Options

2x GbE RJ45



AOC-MGP-i2M

4x GbE RJ45



AOC-MGP-i4M

2x 10GbE SFP+



AOC-MTGN-i2SM

4x 10GbE SFP+



AOC-MTG-i4SM

2x 10GbE RJ45



AOC-MTG-i2TM

2x 25GbE SFP28 & 2x GbE RJ45



AOC-MH25G-b2S2GM

2x 25GbE SFP28 & 2x 10GbE RJ45



AOC-MH25G-m2S2TM

2x FDR IB QSFP & 2x GbE RJ45



AOC-MHIBF-m2Q2GM

1x 100G Omni-Path QSFP28



AOC-MHFI-i1CM

1x EDR IB/100GbE QSFP28 & 1x GbE RJ45



AOC-MHIBE-m1CGM

www.supermicro.com/bigtwin

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4 DP Nodes in 2U

2.5" Drive Bays: SYS-2029BT-HNR/HNCOR/HTR
3.5" Drive Bays: SYS-6029BT-HNCOR

2 DP Nodes in 2U

2.5" Drive Bays: SYS-2029BT-DNCOR/DNR
3.5" Drive Bays: SYS-6029BT-DNCOR

Key Applications	<ul style="list-style-type: none">• Hyperscale and Hyperconverged Solutions• Compute Intensive Application• Enterprise Server• Data Center• HPC	<ul style="list-style-type: none">• Hyperscale and Hyperconverged Solutions• Compute Intensive Application• Enterprise Server• Data Center• HPC
Outstanding Features	<ul style="list-style-type: none">• 4 dual-processor nodes in 2U• 24 DIMMs per node• Hot-swap U.2 NVMe• 2 M.2 slots SATA3 or NVMe per node• 2 low-profile PCI-E x16 slots per node• 1 SIOM card per node	<ul style="list-style-type: none">• 2 dual-processor nodes in 2U• 24 DIMMs per node• Hot-swap U.2 NVMe• 2 M.2 slots SATA3 or NVMe per node• 3 PCI-E lots per node• 1 SIOM card per node
Processor Support	Dual Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s per node	Dual Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s per node
Serverboard	SUPER● X11DPT-B	SUPER● X11DPT-B
Chipset	Intel® C621 chipset	Intel® C621 chipset
Memory Support	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per node
Expansion	2 PCI-E 3.0 x16 (LP) slots and 1 SIOM card support per node Note: Must bundle with a networking card when ordering	2 PCI-E 3.0 x8 (LP), 1 PCI-E 3.0 x16 (LP) slots and 1 SIOM card support per node Note: Must bundle with a networking card when ordering
Onboard Storage Controller	<ul style="list-style-type: none">• 2029BT-HNR: NVMe• 2029BT-HTR: Intel® C621 SATA3 (6 Gbps) controller; RAID 0,1,5,10• 2029BT-HNCOR: Broadcom 3008 SAS3 (12Gbps) controller; IT mode• 6029BT-HNCOR: Broadcom 3008 SAS3 (12Gbps) controller; IT mode	<ul style="list-style-type: none">• 2029BT-DNR: NVMe• 2029BT-DNCOR: Broadcom 3216 SAS3 (12 Gbps) controller; IT mode• 6029BT-DNCOR: Broadcom 3008 SAS3 (12 Gbps) controller; IT mode
Drive Bays	<ul style="list-style-type: none">• 2029BT-HNR: 6 hot-swap 2.5" NVMe drives per node• 2029BT-HTR: 6 hot-swap 2.5" SATA3 drives per node• 2029BT-HNCOR: 6 hot-swap 2.5" SAS3/SATA3 drives (4 of 6 supports NVMe) per node• 6029BT-HNCOR: 3 hot-swap 3.5" NVMe/SAS3/SATA3 drive bays per node	<ul style="list-style-type: none">• 2029BT-DNR: 12 hot-swap 2.5" NVMe drive bays per node• 2029BT-DNCOR: 4 hot-swap 2.5" NVMe/SAS3 drive bays + 8 hot-swap 2.5" SAS drive bays per node• 6029BT-DNCOR: 3 hot-swap 3.5" NVMe/SAS3/SATA3 drive bays + 3 hot-swap SAS3/SATA3 drive bays per node
Connectivity	SIOM Networking	SIOM Networking
Onboard VGA	Aspeed AST2500 BMC per node	Aspeed AST2500 BMC per node
Management	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog
Power Supply	Redundant 2200W Titanium Level high-efficiency power supplies with I2C & PMBus™	Redundant 2200W Titanium Level high-efficiency power supplies with I2C & PMBus™
Cooling System	4x 8cm heavy duty PWM fans with air shroud	4x 8cm heavy duty PWM fans with air shroud
Form Factor	2U Rackmount	2U Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details.

All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.