



# 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

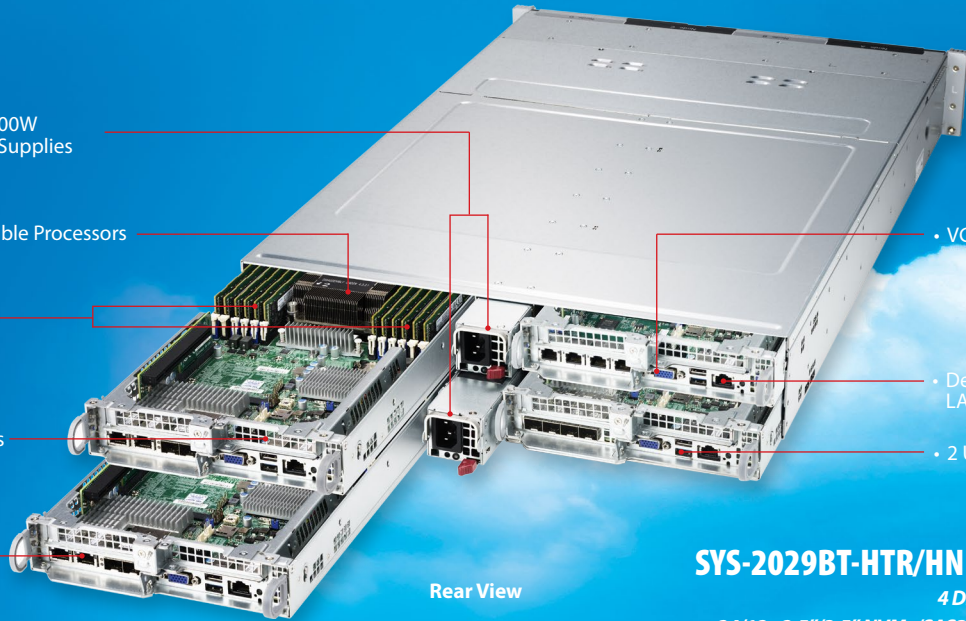
• 2 PCI-E 3.0 x16 LP Slots

• SIOM Slot

• VGA Port

• Dedicated IPMI/KVM LAN Port

• 2 USB 3.0 Ports



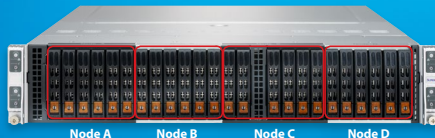
Rear View

**SYS-2029BT-HTR/HNR/HNCOR**

4 DP Nodes in 2U

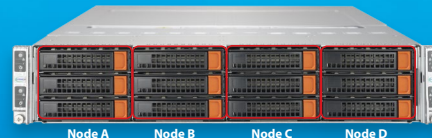
24/12x 2.5"/3.5" NVMe/SAS3/SATA3 drives

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



# BigTwin™



## 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"> <li>Hyperscale and Hyperconverged Solutions</li> <li>Compute Intensive Application</li> <li>Enterprise Server</li> <li>Data Center</li> <li>HPC</li> </ul>	<ul style="list-style-type: none"> <li>Hyperscale and Hyperconverged Solutions</li> <li>Compute Intensive Application</li> <li>Enterprise Server</li> <li>Data Center</li> <li>HPC</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>4 dual-processor nodes in 2U</li> <li>24 DIMMs per node</li> <li>Hot-swap U.2 NVMe</li> <li>2 M.2 slots SATA3 or NVMe per node</li> <li>2 low-profile PCI-E x16 slots per node</li> <li>1 SIOM card per node</li> </ul>	<ul style="list-style-type: none"> <li>2 dual-processor nodes in 2U</li> <li>24 DIMMs per node</li> <li>Hot-swap U.2 NVMe</li> <li>2 M.2 slots SATA3 or NVMe per node</li> <li>3 PCI-E lots per node</li> <li>1 SIOM card per node</li> </ul>
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"> <li><b>2029BT-HNR:</b> NVMe</li> <li><b>2029BT-HTR:</b> Intel® C621 SATA3 (6 Gbps) controller; RAID 0,1,5,10</li> <li><b>2029BT-HNCOR:</b> Broadcom 3008 SAS3 (12Gbps) controller; IT mode</li> <li><b>6029BT-HNCOR:</b> Broadcom 3008 SAS3 (12Gbps) controller; IT mode</li> </ul>	<ul style="list-style-type: none"> <li><b>2029BT-DNR:</b> NVMe</li> <li><b>2029BT-DNCOR:</b> Broadcom 3216 SAS3 (12 Gbps) controller; IT mode</li> <li><b>6029BT-DNCOR:</b> Broadcom 3008 SAS3 (12 Gbps) controller; IT mode</li> </ul>
Drive Bays	<ul style="list-style-type: none"> <li><b>2029BT-HNR:</b> 6 hot-swap 2.5" NVMe drives per node</li> <li><b>2029BT-HTR:</b> 6 hot-swap 2.5" SATA3 drives per node</li> <li><b>2029BT-HNCOR:</b> 6 hot-swap 2.5" SAS3/SATA3 drives (4 of 6 supports NVMe) per node</li> <li><b>6029BT-HNCOR:</b> 3 hot-swap 3.5" NVMe/SAS3/SATA3 drive bays per node</li> </ul>	<ul style="list-style-type: none"> <li><b>2029BT-DNR:</b> 12 hot-swap 2.5" NVMe drive bays per node</li> <li><b>2029BT-DNCOR:</b> 4 hot-swap 2.5" NVMe/SAS3 drive bays + 8 hot-swap 2.5" SAS drive bays per node</li> <li><b>6029BT-DNCOR:</b> 3 hot-swap 3.5" NVMe/SAS3/SATA3 drive bays + 3 hot-swap SAS3/SATA3 drive bays per node</li> </ul>
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 <b>Titanium Level</b> high-efficiency power supplies with I2C & PMBus™	Redundant 2200W <b>Titanium Level</b> 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.