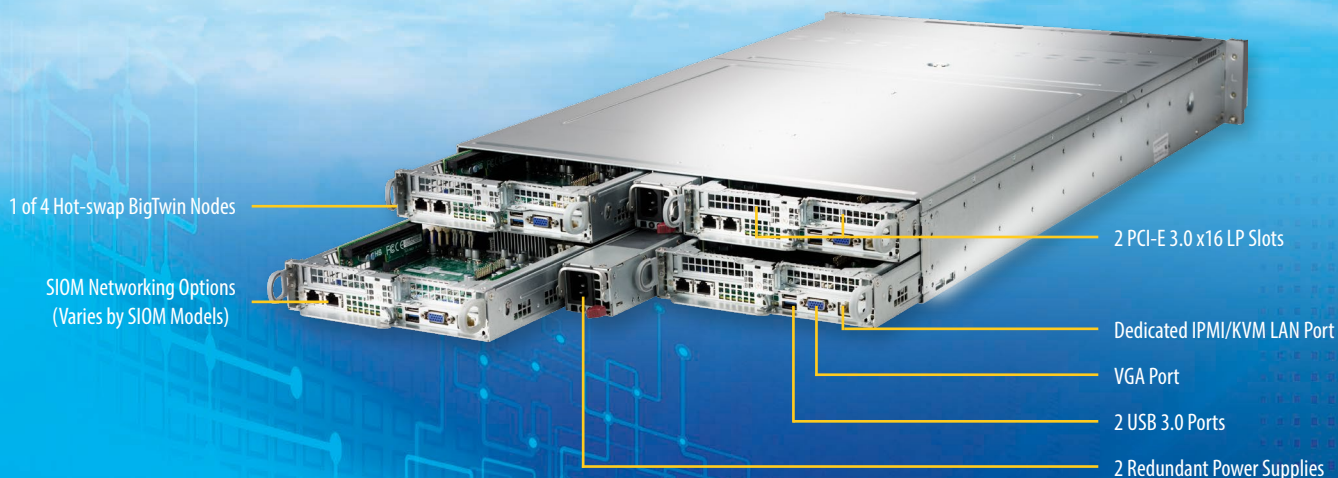




# BigTwin™

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



**A Full Range of Processors** Up to the highest performing 205W CPUs

**Maximum Memory** Full 24 DIMMs of memory per node

**All-Flash NVMe** 24 All-Flash NVMe or Hybrid Drives

**Double the I/O Capacity** Three PCI-E 3.0 x16 options per node



**nvm**  
EXPRESS®

Industry leading 30% better thermal capacity for maximum performance, efficiency and free air cooling (1.05 PUE)



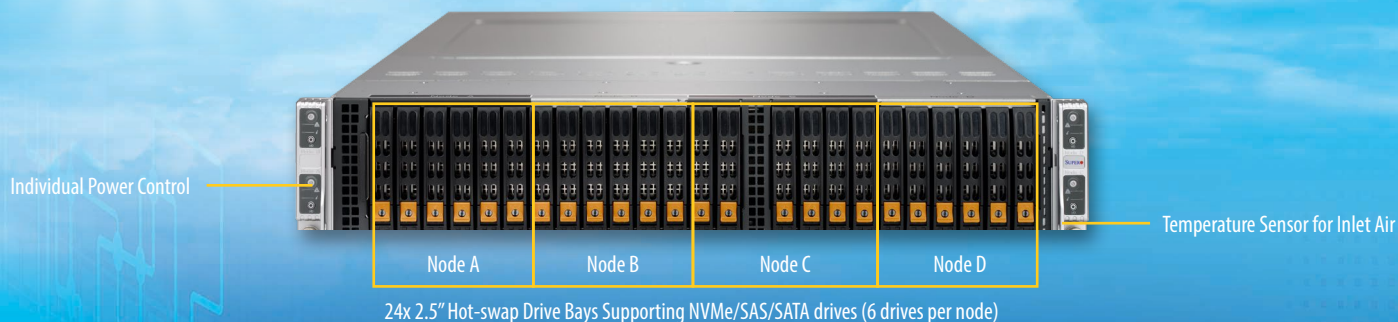
**nvm**  
EXPRESS®



- No-compromise 5th Generation Twin architecture delivers the highest performance and efficiency in a 2U 4-node platform.
- The first and only multi-node system that supports the widest TDP range of CPUs (up to 205W), fully exploits all memory channels with 24 DIMMS per node and 24 All-Flash NVMe drives.
- 30% better thermal capacity in a compact 2U form factor enables configurations with the highest performance processor, memory, storage and I/O leveraging the Titanium Level 96% efficient PowerStick power supplies (2200W/2600W)
- 100% more I/O capacity and added flexibility with more than 10 networking options including 1GbE, 10G, 25G, 100G, IB and industry leading SIOM modular interconnect.

[www.supermicro.com/bigtwin](http://www.supermicro.com/bigtwin)

February 2017



24x 2.5" Hot-swap Drive Bays Supporting NVMe/SAS/SATA drives (6 drives per node)

## All-Flash NVMe / Hybrid SAS / SATA Models

**SYS-2028BT-HNR+ / SYS-2028BT-HNCOR+ / SYS-2028BT-HTR+**

Key Applications	<ul style="list-style-type: none"><li>• Compute Intensive Application</li><li>• Data Center</li><li>• Enterprise Server</li><li>• Financial Analysis</li><li>• HPC</li><li>• Mission-critical applications</li></ul>
Outstanding Features	<ul style="list-style-type: none"><li>• 4 hot swappable nodes in 2U</li><li>• 2 low profile PCI-E x16 slot</li><li>• 24 DIMMs per node</li><li>• 1 SIOM card support</li><li>• 2 low-profile PCI-E x16 slots</li><li>• 2200W High Efficiency (96%) Redundant Power Supplies</li></ul>
Processor	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s per node
Serverboard	SUPER <sup>®</sup> X10DRT-B+
Chipset	Intel® C612 PCH
Memory	<b>24 DIMM</b> slots for up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM DDR4-2400MHz per node
Expansion	2 PCI-E 3.0 x16 low-profile slots and 1 SIOM slot per node
Onboard Storage Controller	Intel C612 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Drive Bays	<ul style="list-style-type: none"><li>• <b>HNR+</b>: 6 hot-swap U.2 NVMe drives per node</li><li>• <b>HNCOR+</b>: 6 hot-swap 2.5" SAS/SATA drives (4 of 6 supports NVMe) per node</li><li>• <b>HTR+</b>: 6 hot-swap 2.5" SATA3 drives per node</li><li>• Optional 2 NVMe/SATA3 M.2 drives support per node</li></ul>
Connectivity	SIOM Networking
VGA/Audio	Aspeed AST2400 BMC
Management	<b>Quad set</b> of 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™
Cooling System	4x 8cm heavy duty PWM fans with air shroud
Form Factor	2U Rackmount

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