Supermicro SuperServer SYS-2028BT-HTR+ 2U BigTwin^2 DP 4x6SFF RED PSU

Part number: SYS-2028BT-HTR+

Chassis Form Factor	Rack 2U
# of systems (nodes)	4
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets (per node)	2
Supported CPU's	Intel Xeon E5-2600v4 Intel Xeon E5-2600v3
Max CPU TDP	145 W
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's (per node)	24
Max Memory Size (per node)	3072 GB
Integrated GPU	Aspeed AST2400
# of 2.5 hot-swap bays (per node)	6
# of PCIe x16 3.0 (per node)	2
# of USB Ports (per node)	2 x USB 3.0 (rear)
# of SATA Ports (per node)	6
Storage Controllers	6 x AHCI iSATA 6Gb/s
Integrated RAID	0,1,5,10
Network Controllers	SIOM Networking AOC Matrix
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Aspeed AST2400
Power Supply	Redundant
PSU Wattage	2200W
PSU Certification	80+ Titanium
Chassis Dimensions	447 x 88 x 730mm

Product SKUs

SYS-2028BT-HTR+ • SuperServer 2028BT-HTR+ (**Black**)

Motherboard

Super X10DRT-B+

Processor/Cache (per Node)

CPU	• Intel® Xeon® processor E5-2600 **v4**‡/ v3 family (up to 145W TDP) * • Dual Socket R3 (LGA 2011)
Cores / Cache	• Up to **22 Cores**† / Up to **55MB**† Cache
System Bus	• QPI up to 9.6 GT/s
Note	† BIOS version 2.0 or above is required
Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory (per Node)

Memory Capacity	• 24x 288-pin DDR4 DIMM slots • Up to 3TB† ECC 3DS LRDIMM, 768GB ECC RDIMM
Memory Type	• **2400**†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	• RDIMM: 32GB, 16GB, 8GB, 4GB • LRDIMM: 64GB, 32GB • 3DS LRDIMM: 128GB
Memory Voltage	• 1.2 V
Error Detection	• Corrects single-bit errors

On-Board Devices (per Node)

Chipset	• Intel® C612 chipset
SATA	• SATA3 (6Gbps) with RAID 0, 1, 5, 10
IPMI	• Support for Intelligent Platform Management Interface v.2.0 • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support • ASPEED AST2400 BMC
Network	• Must bundle with at least one SIOM network card
Video	• ASPEED AST2400 BMC

Input / Output (per Node)

SATA	• 6 SATA3 (6Gbps) ports
LAN	• 1 RJ45 Dedicated IPMI LAN port
USB	• 2 USB 3.0 ports (rear)
Video	• 1 VGA port

Chassis

Form Factor	• 2U Rackmount
Model	• **CSE-217BHQ+-R2K22BP**

Dimensions and Weight

Width	• 17.6" (447mm)
Height	• 3.47" (88mm)
Depth	• 28.75" (730mm)
Package	• 24.65" (H) x 9.76" (W) x 45.28" (D)
Weight	• Gross Weight: 85 lbs (38.6kg) • Net Weight: 54.5 lbs (24.7 kg)
Available Colors	• Black

Front Panel

Buttons	• Power On/Off button • System Reset button • UID button
LEDs	• Power status LED • HDD activity LED • 2 Network activity LEDs • Universal Information (UID) LED

Expansion Slots (per Node)

PCI-Express	• 2 PCI-E 3.0 (x16) Low-profile slots • 1 SIOM card (must bundle with network card)

Drive Bays (per Node)

	• 6 Hot-swap 2.5" SATA3 drive bays
Hot-swap	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 HDD.

System Cooling

Fans	• 4x 8cm heavy duty PWM fans with air shroud

Power Supply

2200W Redundant Power Supplies with PMBus

Total Output Power	• 1200W/1800W/1980W/2090/2200W
Dimension (W x H x L)	• 45 x 40 x 480 mm
Input	• 100-127Vac / 50-60Hz (1200W) • 200-220Vac / 50-60Hz (1800W) • 220-230Vac / 50-60Hz (1980W) • 230-240Vac / 50-60Hz (2090W) • 180-220Vac / 50-60Hz (2090W) • 220-240Vac / 50-60Hz (2200W)
+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) • Max: 183.33A / Min: 0A (220-240Vac)
12Vsb	• Max: 2.1A / Min: 0A
Output Type	• Backplanes (connector)
Certification	UL/cUL/CB/BSMI/CE/CCC **Titanium Level** **[Cert. in progress]**

System BIOS

BIOS Type	• 128Mb SPI Flash EEPROM with AMI BIOS

Operating Environment / Compliance

RoHS	• RoHS Compliant
Environmental Spec.	• Operating Temperature: 10°C to 35°C (50°F to 95°F) • Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) • Operating Relative Humidity: 8% to 90% (non-condensing) • Non-operating Relative Humidity: 5% to 95% (non-condensing)

Due to the complexity of integration, this product is sold as completely assembled systems only (with minimum 2 CPU, 2 DIMM, 1 HDD/NVMe and 1 NIC or SIOM card per node).

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https://www.superstorage.pl/supermicro-superserver-sys-2028bt-htr-2u-bigtwin2-dp-4x6sff-red-psu-p-2917.html