

SuperServer 2028UT-BTNRT (Complete System Only)



Available Colors:

Black



Due to the complexity of integration, this product is sold as completely assembled systems only (including but not limited to CPUs, memory, and HDDs). Please contact your Supermicro sales rep for special requirements.

Key Features

1. Dual socket R1 (LGA 2011) supports Intel® Xeon® processor E7-8800 v2 / E7-4800 v2 / E7-2800 v2 family (15-Core), w/ QPI up to 8.0 GT/s
2. 2x NVMe HDD bays and 8x Hot-swap 2.5" SATA3 HDD bays
3. Up to 2TB ECC DDR3, up to 1600MHz; 32x DIMM slots
4. 2x PCI-E 3.0 x16 FH/HL slots, 1x PCI-E 3.0 x8 MicroLP card
5. Dual 10GBase-T ports - Intel® X540
6. 1280W Redundant Power Supplies Platinum Level Digital (95%+)

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

Specifications

Product SKUs

SYS-2028UT-BTNRT ■ SuperServer 2028UT-BTNRT (Black)

Motherboard

Super X10DBT-T

Processor/Cache

CPU ■ Dual Socket R1 (LGA 2011)
 ■ Intel® Xeon® processor E7-8800 v2 / E7-4800 v2 / E7-2800 v2 (up to 15 Cores and 155W)

Note † BIOS version 3.0 or above is required

Cache ■ Up to 37.5MB

System Bus ■ QPI up to 8 GT/s

System Memory

Memory ■ 32x 240-pin DDR3 DIMM slots
 ■ Up to 2TB DDR3 ECC LRDIMM

Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-227HD-R1K28B

Dimensions and Weight

Width ■ 17.2" (437mm)

Height ■ 3.5" (89mm)

Depth ■ 28.6" (726mm)

Gross Weight ■ 50 lbs (22.7kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button
 ■ UID button

LEDs ■ Power status LED
 ■ HDD activity LED
 ■ 2x Network activity LEDs
 ■ Universal Information (UID) LED

Capacity	<ul style="list-style-type: none"> Up to 1TB DDR3 ECC Registered memory (RDIMM)
Memory Type	<ul style="list-style-type: none"> 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB LRDIMM 64GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602 Chipset
SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
IPMI	<ul style="list-style-type: none"> 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 Controllers	<ul style="list-style-type: none"> Intel® X540 Dual Port 10GBase-T Controller Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8211E PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

SATA3	<ul style="list-style-type: none"> Customizable storage 8x SATA 3.0 ports (6Gbps)
LAN	<ul style="list-style-type: none"> 2x RJ45 10GBase-T LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 2.0 ports total (2x rear)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port / 1 Header

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 2x PCI-E 3.0 x16 slots (FH/HL) 1x PCI-E 3.0 x8 MicroLP card
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 8x Hot-swap 2.5" SATA3 HDD bays
NVMe	<ul style="list-style-type: none"> 2x NVMe drive bays

Backplane

1x SAS/SATA Backplane

System Cooling

Fans	<ul style="list-style-type: none"> 4x 80mm 4-pin PWM fans
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Power Supply

1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2

AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-140V, 8-12A, 50-60Hz 1280W Output @ 180-240V, 6-8A, 50-60Hz
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DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
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Certification



Platinum Certified
[[Test Report](#)]

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 PCI 2.2 ACPI 1.0 / 2.0 / 3.0 / 4.0 BIOS resuce hot keys USB Keyboard support SMBIOS 2.3 UEFI

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DBT-T	2	Super X10DBT-T Motherboard
	CSE-227HD-R1K28B	1	2U Chassis
Air Shroud	MCP-310-22701-0B	2	Mylar airshroud for SC227 in X10DBT,RoHS/REACH
Backplane	BPN-ADP-8PCIE3-1UBR-P	2	Right 1U adapter card for BigTwin, 8x PCIe gen3 lanes
Backplane	BPN-ADP-8SATA3-1UBL	2	,RoHS/REACH,PBF Left 1U adapter card for BigTwin, 8x SATA3 ports

Backplane	BPN-SAS3-227HD-N2	1	SAS 12G & PCIe SSD backplane for Big Twin, supports 10x 2.5" SAS3/SATA3 HDD/SSD and 2 X NVMe SSD per node.
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Label	LBL-0968	1	Pack of 4 NVMe label for Gen 3, 2.5 inch HDD Tray,RoHS/REACH
Manual	MNL-1603-QRG	1	SYS-2028UT-BTNRT/BC1NRT, QRG,HF,RoHS/REACH
Riser Card	RSC-R1UW-2E16	2	RSC-R1UW-2E16-O-P
Heatsink / Retention	SNK-P0057PS	4	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K28P-SQ	2	1U 1280W, redundant single output power supply
Rail Set	MCP-290-00053-0N	1 set	Rail set, quick/quick, default for 2,3U 17.2"W
Software	SFT-OOB-LIC	2	License key for enabling OOB BIOS management