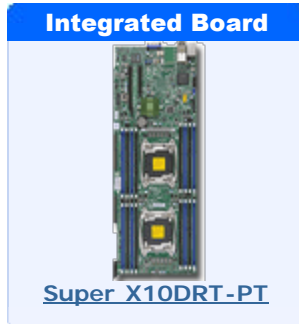


# SuperServer 6028TP-DNCTR



Available Colors:

Black



## Key Features

**Two hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:**

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1TB ECC LRDIMM, 512GB ECC RDIMM, up to 2133MHz; 16x DIMM sockets
3. 1x PCI-E 3.0 x16, 1x PCI-E 3.0 x8 slots
4. Intel® X540 Dual port 10GBase-T
5. Integrated IPMI 2.0 with KVM and Dedicated LAN
6. 6x 3.5" Hot-swap drive bays (Up to 4x NVMe + 2x SAS3 or 6x SAS3)
7. LSI 3008 SAS3 controller (8 ports); RAID 0, 1, 10
8. 1600W Redundant Power Supplies **Titanium Level Digital** (96%)

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

## Specifications

### Product SKUs

**SYS-6028TP-DNCTR** ■ SuperServer 6028TP-DNCTR (**Black**)

### Motherboard

**Super X10DRT-PT**

### Processor/Cache (per Node)

**CPU** ■ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) \*  
■ Dual Socket R3 (LGA 2011)

**Cores / Cache** ■ Up to 18 Cores / Up to 45MB Cache

**System Bus** ■ QPI up to 9.6 GT/s

**Note** \* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

### System Memory (per Node)

**Memory Capacity** ■ 16x 288-pin DDR4 DIMM slots  
■ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM

### Chassis

**Form Factor** ■ 2U Rackmount

**Model** ■ **CSE-827HD+-R1K68B**

### Dimensions and Weight

**Width** ■ 17.25" (438mm)

**Height** ■ 3.47" (88mm)

**Depth** ■ 30.5" (774mm)

**Weight** ■ Gross Weight: 85 lbs (38.6kg)  
■ Net Weight: 66 lbs (29.9 kg)

**Available Colors** ■ Black

### Front Panel

**Buttons** ■ Power On/Off button  
■ UID button

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

### Expansion Slots (per Node)

**PCI-Express** ■ 1x PCI-E 3.0 x16 slot  
■ 1x PCI-E 3.0 x8 slot

<b>Memory Type</b>	<ul style="list-style-type: none"> <li>2133/1866/1600MHz ECC DDR4 SDRAM 72-bit</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>RDIMM: 32GB, 16GB, 8GB, 4GB</li> <li>LRDIMM: 64GB, 32GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> </ul>

#### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>LSI 3008 SAS3 (12Gbps) controller; RAID 0, 1, 10 support</li> <li>Note: In order to support NVMe drives, both CPU socket must be populated</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® X540 Dual port 10GBase-T</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>

#### Input / Output (per Node)

<b>SAS</b>	<ul style="list-style-type: none"> <li>6x SAS3 (12Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 10GBase-T ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB 3.0 ports total (2x rear)</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port / 1 Header (internal)</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>1x <u>mSATA</u> (full size) and one SATADOM support on the daughter card</li> <li>1x <u>SATADOM</u> support on the motherboard</li> </ul>

#### Drive Bays (per Node)

<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>6x 3.5" Hot-swap drive bays: Up to 4x NVMe + 2x SAS3 or 6x SAS3</li> </ul>
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#### System Cooling

<b>Fans</b>	<ul style="list-style-type: none"> <li>4x 8cm heavy duty PWM fans with optimal fan speed control</li> </ul>
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#### Power Supply

1600W Titanium Level (96%) High-efficiency Redundant Single Output Power Supplies

<b>AC Input</b>	<ul style="list-style-type: none"> <li>800W Output @ 100-140V, 7-10A, 50-60Hz</li> <li>1600W Output @ 180-240V, 8-11A, 50-60Hz</li> </ul>
<b>DC Output</b>	<ul style="list-style-type: none"> <li>800W: +12V/67A, +5Vsb/1A</li> <li>1600W: +12V/133A, +5Vsb/1A</li> </ul>

<b>Certification</b>	  <b>Titanium Level [ Test Report ]</b>
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#### System BIOS

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

#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10DRT-PV	2	Super X10DRT-PV Motherboards 2U Chassis
	CSE-ì7HD+-R1K68B	1	
<b>Backplane</b>	BPN-SAS3-ì7 HD-N4	1	2U adapter card for 2U TwinPro system; LSI3008 on board to provide 8x SAS3 ports, 4x NVMe ports, 1x mSATA port and 1x SATADOM port, HF, RoHS/REACH
<b>Backplane</b>	BPN-ADP-8S3008N4-2UP-O-P	2	2U adapter card for 2U TwinPro system; LSI3008 on board to provide 8x SAS3 ports, 4x NVMe ports, 1x mSATA port and 1x SATADOM port, HF, RoHS/REACH
<b>Heatsink / Retention</b>	SNK-P0048PS	4	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-1K68A-1R	2	1U 1600W Redundant Titanium Power Supply 76mm width 27Pair, PBF

### Optional Parts List

	Part Number	Qty	Description
<b>Onsite Service Program</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
<b>Onsite Service Program</b>	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	SFT-OOB-LIC	2	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	2	DataCenter Management Package (per node license)