# SuperServer 6028TP-HTFR

Products ▶ Systems ▶ 2U ▶ [ 6028TP-HTFR ]



Product SKUs



Views: | Angled View | Node View | | Front View | Rear View |

## SPECfp\_base2006 World Record Holder!

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► <u>Drivers & Utilities</u> ► <u>BIOS</u> ► <u>IPMI</u> ► <u>Tested Memory</u> ► <u>Manuals</u> ► <u>OS</u> <u>Certification Matrix</u> ► <u>Drive Options</u>



#### **Key Features**

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

- Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600
   v4<sup>†</sup>/ v3 family; QPI up to 9.6GT/s
- 2. Up to  $\mathbf{2TB}^{\dagger}$  ECC 3DS LRDIMM , up to DDR4-  $\mathbf{2400}^{\dagger}$ MHz ; 16x DIMM slots
- 3. 1x PCI-E 3.0 x16 Low-profile slot; 1x "0 slot" (x16)
- 4. Single port IB (FDR, 56Gbps), w/ QSFP connector
- 5. Intel® i350-AM2 Dual port GbE LAN
- 6. Integrated IPMI 2.0 with KVM and Dedicated LAN
- 7. 3x 3.5" Hot-swap SATA HDD Bays
- 8. 2000W Redundant Power Supplies Titanium Level (96%)

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

#### **Specifications**

#### SYS-6028TP-■ SuperServer 6028TP-HTFR (Black) **HTFR** Motherboard Super X10DRT-PIBF Processor/Cache (per Node) ■ Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 CPU family (up to 145W TDP) Dual Socket R3 (LGA 2011) Cores / ■ Up to 22 Cores<sup>†</sup> / Up to 55MB<sup>†</sup> Cache Cache System Bus ■ QPI up to 9.6 GT/s <sup>†</sup> 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) ■ 16x 288-pin DDR4 DIMM slots Memory ■ Up to 2TB<sup>†</sup> ECC 3DS LRDIMM, 512GB ECC Capacity **2400**†/2133/1866/1600MHz ECC DDR4 Memory Type SDRAM 72-bit ■ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB **DIMM Sizes** ■ LRDIMM: 64GB, 32GB ■ 3DS LRDIMM: 128GB Memory ■ 1.2 V Voltage Error ■ Corrects single-bit errors Detection On-Board Devices ■ Intel® C612 chipset Chipset ■ Mellanox ConnectX-3 FDR Infiniband Infiniband 56Gbps Controller SATA ■ SATA3 (6Gbps); RAID 0, 1, 5 Support for Intelligent Platform Management

Chassis			
Form Factor	■ 2U Rackmount		
Model	CSE-827HQ+-R2K04B		
inouci.	I GOL GENTAL TELEGRA		
Dimensions an	d Weight		
Width	■ 17.25" (438mm)		
Height	■ 3.47" (88mm)		
Depth	■ 30.5" (774mm)		
Weight	■ Gross Weight: 90 lbs (40.9kg) ■ Net Weight: 72 lbs (32.7 kg)		
Available Colors	■ Black		
Front Panel	Power On/Off hutter		
Buttons	<ul><li>Power On/Off button</li><li>UID button</li></ul>		
	Power status LED HDD activity LED		
LEDs	2x Network activity LEDs		
	■ Universal Information (UID) LED		
Expansion Slot	s (per Node)		
PCI-Express	■ 1x PCI-E 3.0 x16 Low-profile slot		
	1x "0 slot" (x16)		
	<ul> <li>Compatible Listing</li> </ul>		
0 Slot			
	(Both CPUs need to be installed for full		
	access to PCI-E slots and 0 slot.)		
Orive Bays (pe	r Node)		
Hot-swap	■ 3x 3.5" Hot-swap SATA HDD trays		
System Coolin			
Fans	<ul> <li>4x 8cm heavy duty PWM fans with optimal fan speed control</li> </ul>		
Power Supply	(76mm Width)		
	ant Power Supplies with PMBus		
Total Output Power	■ 1000W/2000W		
Dimension	■ 76 x 40.4 x 336 mm		
(W x H x L)			
(W x H x L)	■ 100-127 Vac / 12-9.5 A / 50-60 Hz ■ 200-220 Vac / 10-9.5 A / 50-60 Hz		

IPMI

Interface v.2.0

KVM-over-LAN support

ASPEED AST2400 BMC

■ IPMI 2.0 with virtual media over LAN and

Network Controllers	<ul> <li>Intel® i350-AM2 Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and</li> </ul>	Input	<ul> <li>220-230 Vac / 10-9.8 A / 50-60 Hz</li> <li>230-240 Vac / 10-9.8 A / 50-60 Hz</li> <li>200-240 Vac / 11.8-10 A / 50-60 Hz (UL/cUL only)</li> </ul>
Graphics	1000BASE-T, RJ45 output ■ 1x Realtek RTL8201N PHY (dedicated IPMI) ■ ASPEED AST2400 BMC	+12V	<ul> <li>Max: 83.3A &amp; Min: 0A (100-127 Vac)</li> <li>Max: 150A &amp; Min: 0A (200-220 Vac)</li> <li>Max: 165A &amp; Min: 0A (220-230 Vac)</li> <li>Max: 166.7A &amp; Min: 0A (230-240 Vac)</li> <li>Max: 166.7A &amp; Min: 0A (200-240 Vac)</li> </ul>
SATA	■ 3x SATA3 (6Gbps) ports		(UL/cUL only)
LAN	<ul> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>	+5Vsb Output Type	<ul><li>Max: 1A / Min: 0A</li><li>27 Pairs Gold Finger Connector</li></ul>
Infiniband	1x external QSFP Infiniband connector		QUL/cUL/CB/BSMI/CE/CCC
USB	2x USB 3.0 ports total (2x rear)	Certification	Titanium Level
VGA	■ 1x VGA port		
Serial Port / Header	<ul> <li>1x Fast UART 16550 port / 1 Header (internal)</li> </ul>	System BIOS BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS
Others	■ 1x <u>SATADOM</u> support on the motherboard	BIOS Features	Plug and Play (PnP) APM 1.2 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3
		Operating Enviro	onment / 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)

### Parts List

#### See Parts List

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