Specifications

Product SKUs

SYS-6029TP-HTR	• SuperServer 6029TP-HTR (**Black**)

Motherboard (Four per System)

Super X11DPT-PS

Processor/Cache (per Node)

CPU	• Dual Socket P (LGA 3647) • Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s • Support CPU TDP 70-165W*
Cores	• Up to 28 Cores with Intel® HT Technology
Note	* Please contact Supermicro Technical Support for supporting conditions of high power (TDP 150W and above) or high base frequency (3.0 GHz and above) processors.

System Memory (per Node)

Memory Capacity	• 16 DIMM slots • Up to 2TB ECC 3DS LRDIMM, 2TB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	• 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices (per Node)

Chassis

Form Factor	• 2U Rackmount
Model	• **CSE-827HQ+-R2K20BP2**

Dimensions and 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

Buttons	• Power On/Off button • UID button
LEDs	• Power status LED • HDD activity LED • 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 support Note: Barebones and Complete System must bundle with Network Card

Chipset	• Intel® C621 chipset
SATA	• SATA3 (6Gbps); RAID 0, 1, 5, 10 support
Network Controllers	• Barebones and Complete System must have at least one SIOM or network card installed per node
IPMI	• Support for Intelligent Platform Management Interface v.2.0 • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	• ASPEED AST2500 BMC

Input / Output (per Node)

SATA	• 3 SATA3 (6Gbps) ports
LAN	• 1 RJ45 Dedicated IPMI LAN port
USB	• 2 USB 3.0 ports total (rear)
VGA	• 1 VGA port
Serial Port / Header	• 1 Fast UART 16550 port / 1 Header (internal)
Others	• 2 SuperDOM support on the motherboard • 1 NVMe or 2 SATA M.2 (22x80/60/42 mm) support with option part: AOC-SMG3-2H8M2 • M.2 and SuperDOM are for OS boot and they cannot coexist

System BIOS

BIOS Type	• AMI 32MB SPI Flash ROM

Management

(With only one CPU installed, SXB2 M.2 and SXB4 riser card slots not function)

Drive Bays (per Node)

Hot-swap	• 3 Hot-swap 3.5" SATA3 HDD trays

System Cooling

Fans	• 4 Heavy duty 8cm PWM fans with optimal fan speed control

Power Supply

2200W or 2000W Redundant Power Supplies with PMBus

Total Output Power and Input	• 1200W with Input 100-127Vac • 1800W with Input 200-220Vac • 1980W with Input 220-230Vac • 2090W with Input 230-240Vac • 2200W with Input 220-240Vac (for UL/cUL use only) • 2090W with Input 230-240Vdc (for CCC only)
AC Input Frequency	• 50-60Hz
Dimension (W x H x L)	• 76 x 40 x 336 mm
+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: 183.3A / Min: 0A (220-240Vac)
5VSB	• Max: 1A / Min: 0A
Output Type	• Backplanes (gold finger)

Software	• Intel® Node Manager • IPMI 2.0 • KVM with dedicated LAN • NMI • SSM, SPM, SUM • SuperDoctor® 5 • Watchdog
Power Configurations	• ACPI Power Management

PC Health Monitoring

CPU	• Monitors for CPU Cores, Chipset Voltages, Memory. • 5+1 Phase-switching voltage regulator
FAN	• Fans with tachometer monitoring • Status monitor for speed control • Pulse Width Modulated (PWM) fan connectors
Temperature	• Monitoring for CPU and chassis environment • Thermal Control for fan connectors
Omni-Path Fabric CPUs	• Do not support

Certification	 UL/cUL/CB/BSMI/CE/CCC **Titanium Level** **[Cert. in progress]**

Operating Environment

RoHS	• RoHS Compliant
Environmental Spec.	• Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) • Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) • Operating Relative Humidity: 8% to 90% (non-condensing) • Non-operating Relative Humidity: 5% to 95% (non-condensing)