

A+ Server 2014TP-HTR



Views: [Angled View](#) | [Node View](#) | [Front View](#) | [Rear View](#) |



Key Features

- Compute Intensive Applications
- HPC, Data Center, Enterprise Server
- Hyperscale / Hyperconverged

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

1. Single AMD EPYC™ 7003/7002 Series Processor (The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer)
2. Up to 2TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 8 DIMM slots
3. 2 PCI-E 4.0 x16 (LP) slots
4. Flexible Networking support via SIOM; Dedicated IPMI 2.0 LAN
 - Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management
5. 3 Hot-swap 3.5" SATA3 drive bays
 - M.2 Interface: 4 SATA/PCI-E 4.0 x4
 - M.2 Form Factor: 2280, 22110, 2260, 2242
 - M.2 Key: M-key
6. 2000W Redundant Power Supplies Titanium Level (96%) (Full redundancy based on configuration and application load)

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

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#) [Tested M.2 List](#) [Tested AOC](#) [Manuals](#) [OS Certification Matrix](#) [Quick-References Guide](#) [Drive Options](#)



Specifications

Product SKUs

AS -2014TP-HTR A+ Server 2014TP-HTR

Motherboard (per Node)

Super H12SST-PS

Processor/Chipset (per Node)

CPU Single AMD EPYC™ 7003/7002 Series Processor (The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer) Socket SP3 Supports CPU TDP/cTDP up to 280W*

Cores Up to 64 Cores

Note * Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization

System Memory (per Node)

Memory Capacity 8 DIMM slots Supports up to 2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs 8-channel memory bus

Memory Type DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs

Memory Sizes 8GB, 16GB, 32GB, 64GB, 128GB, 256GB

Memory Voltage 1.2V

Error Detection Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices (per Node)

Chipset System on Chip

Storage SATA3 (6Gbps) via AMD EPYC

Network Controllers Barebones and Complete System must have at least one SIOM 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

Video ASPEED AST2500 BMC

Input / Output (per Node)

LAN Provided via SIOM (optional) 1 RJ45 Dedicated IPMI LAN port

USB 2 USB 3.0 ports (rear) 1 USB 2.0 port (Type A)

Video 1 VGA port

DOM 1 SuperDOM (Disk on Module) port

Others 2 COM ports (header) 1 TPM 2.0 header

System BIOS (per Node)

BIOS Type AMI 128Mb SPI Flash ROM

Management (per Node)

Software [IPMI 2.0](#) KVM with dedicated LAN [SSM](#), [SUM](#) [SuperDoctor® 5](#) Watch Dog

Power Configurations ACPI / APM Power Management

Chassis

Form Factor 2U Rackmount

Model CSE-827HQ+-R2K04BP2

Dimensions and Weight

Width 17.25" (438mm)

Height 3.47" (88mm)

Depth 30.5" (774mm)

Package 26.4" (W) x 11.2" (H) x 39.8" (D)

Weight Gross Weight: 85 lbs (38.6 kg) Net Weight: 54.5 lbs (24.7 kg)

Available Colors Black

Front Panel (per Node)

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 4.0 (x16) Low-profile slots 1 SIOM card support (must be assembled/integrated with SIOM)

M.2 Interface: 4 SATA/PCI-E 4.0 x4 Form Factor: 2280, 22110, 2260, 2242 Key: M-key

Drive Bays (per Node)

Hot-swap 3 Hot-swap 3.5" SATA3 drive bays

System Cooling

Fans 4 Heavy duty 8cm PWM fans

Power Supply (76mm Width)

2000W Redundant Power Supplies with PMBus

Total Output Power 1000W/1800W/1980W/2000W

Dimension (W x H x L) 76 x 40 x 336 mm

Input 1000W: 100-127 Vac / 12-9.5 A / 50-60 Hz 1800W: 200-220 Vac / 10-9.5 A / 50-60 Hz 1980W: 220-230 Vac / 10-9.8 A / 50-60 Hz 2000W: 230-240 Vac / 10-9.8 A / 50-60 Hz 2000W: 200-240 Vac / 11.8-9.8 A / 50-60 Hz (UL/cUL only)

+12V Max: 83.3A / Min: 0A (100-127 Vac) Max: 150A / Min: 0A (200-220 Vac) Max: 165A / Min: 0A (220-230 Vac) Max: 166.7A / Min: 0A (230-240 Vac) Max: 166.7A / Min: 0A (200-240 Vac) (UL/cUL only)

+5Vsb Max: 1A / Min: 0A

Output Type 27 Pairs Gold Finger Connector

Certification [\[Test Report \]](#)

Operating Environment

RoHS RoHS Compliant

Environmental Spec. Operating Temperature: 10°C ~ 30°C (50°F ~ 85°F) All CPU SKUs supported 10°C ~ 35°C (50°F ~ 95°F) See Note * 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)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-H12SST-PS	4	Super H12SST-PS Motherboard
	CSE-827HQ+-R2K04BP2	1	2U Chassis
Backplane	BPN-ADP-6SATA3P	4	Backplane adapter card; 6SATA ports,RoHS/REACH,PBF
Backplane	BPN-SAS3-827HQ2	1	2U 12-Port 4-Node Backplane Supports 3x3.5" SAS3/SATA3 HDD per Node
Drive Tray(s)	MCP-220-00075-0B	12	Black gen 5.5 hot-swap 3.5" HDD tray
Parts	MCP-240-82715-0N	1	TwinPro SC827HQ+ BPN retention bracket assembly
Riser Card	RSC-P-6-X2	4	1U LHS TwinPro riser card with one PCI-E 4.0 x16 slot,HF,RoH
Riser Card	RSC-PR-6-X2	4	1U RHS TwinPro Riser card with one PCI-E 4.0 x16 slot,HF,RoH
Software	SFT-OOB-LIC	4	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0062P	4	1U Passive CPU Heat Sink for AMD Socket SP3 Processors
Air Shroud	MCP-310-82723-0B	4	SC827HQ+ mylar air shroud for MBD-H12SST-PS-P
Power Supply	PWS-2K04A-1R	2	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, +12V/+5Vsb, 360x76x40mm,HF,RoHS/REACH
FAN	FAN-0162L4	4	80x80x38 mm, 13.5K RPM, HCP, LMV, and LPC Cooling Fan,RoHS/REACH
Cable	CBL-PWCD-0578-1	2	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG,RoHS
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management

Optional Parts List

	Part Number	Qty	Description
Hot-swap 3.5" to 2.5" Hard Disk Drive Tray	MCP-220-00043-0N	-	Black Hot-swap gen 4 3.5" to 2.5" HDD tray
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
TPM security module	AOM-TPM-9655V	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF;
	AOM-TPM-9665V	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF;
SIOM	-	-	Supermicro SIOM solutions [Details]

Global SKU [English](#)

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