

## A+ Server 2014TP-HTR



### Integrated Board



[./Aplus/motherboard/EPYC7000/H12SST-PS.cfm](/Aplus/motherboard/EPYC7000/H12SST-PS.cfm)

**Super H12SST-PS** ([./Aplus/motherboard/EPYC7000/H12SST-PS.cfm](/Aplus/motherboard/EPYC7000/H12SST-PS.cfm)).

**Views:** [Angled View \(/a\\_images/products/views/2014TP-HTR\\_angle.jpg\)](/a_images/products/views/2014TP-HTR_angle.jpg) |

[Node View \(/a\\_images/products/views/2014TP-HTR\\_node.jpg\)](/a_images/products/views/2014TP-HTR_node.jpg) |

[Front View \(/a\\_images/products/views/2014TP-HTR\\_front.jpg\)](/a_images/products/views/2014TP-HTR_front.jpg) | [Rear](/a_images/products/views/2014TP-HTR_rear.jpg)

[View \(/a\\_images/products/views/2014TP-HTR\\_rear.jpg\)](/a_images/products/views/2014TP-HTR_rear.jpg) |

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#)

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=86917&ProductName=AS2014TP-HTR\)](/en/support/resources/m2ssd?SystemID=86917&ProductName=AS2014TP-HTR)

[Tested AOC](#) [Manuals](#)

[OS Certification Matrix \(/en/support/resources/certification/AS-2014TP-HTR\)](/en/support/resources/certification/AS-2014TP-HTR)

[Quick-References Guide](#) [Drive Options](#)

## 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.

## Specifications

## Product SKUs

### AS -2014TP-HTR

A+ Server 2014TP-HTR

## Motherboard (per Node)

### Super H12SST-PS

([/Aplus/motherboard/EPYC7000/H12SST-PS.cfm](https://aplus/motherboard/EPYC7000/H12SST-PS.cfm))

## 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](https://en/support/resources/aoc/siom)

([/en/support/resources/aoc/siom?](https://en/support/resources/aoc/siom?show=SELECT&type=TwinPro)

[show=SELECT&type=TwinPro](https://en/support/resources/aoc/siom?show=SELECT&type=TwinPro)), 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 ([/SATADOM/](https://en/support/resources/aoc/siom)), (Disk on Module) port

## 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](https://en/support/resources/aoc/siom) ([/en/support/resources/aoc/siom](https://en/support/resources/aoc/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)

**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 \(/solutions/IPMI.cfm\)](#),

KVM with dedicated LAN

[SSM \(/solutions/SMS\\_SSM.cfm\)](#), [SUM \(/solutions/SMS\\_SUM.cfm\)](#),

[SuperDoctor® 5 \(/solutions/SMS\\_SD5.cfm\)](#),

Watch Dog

**Power Configurations**

ACPI / APM Power Management

**+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**

(<http://www.plugloadsolutions.com/80PlusPowerSupply>

[id=69&type=2](http://www.plugloadsolutions.com/80PlusPowerSupply?id=69&type=2)). **Titanium Level**



[ [Test Report](#)

(</products/powersupply/80PLUS/80PLUS>

[1R.pdf](#) )]

**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)

**Parts List**

[Global SKU \(/en/products/SMC\\_global\\_skus\)](/en/products/SMC_global_skus)