

A+ Server 2114S-WN24RT (Complete System Only)



Integrated Board



[./Aplus/motherboard/EPYC7000/H12SSW-](#)

[NTR.cfm](#)

[H12SSW-NTR./Aplus/motherboard/EPYC7000/H12SSW-NTR.cfm](#)

Views: | [Angled View \(/a_images/products/views/2114S-WN24RT_angle.jpg\)](#) | [Top View \(/a_images/products/views/2114S-WN24RT_top.jpg\)](#) |

| [Front View \(/a_images/products/views/2114S-WN24RT_front.jpg\)](#) | [Rear View \(/a_images/products/views/2114S-WN24RT_rear.jpg\)](#) |

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (for optimal performance 8 DIMMs is recommended). Minimum requirement is 1 CPU, 2 DIMMs, 1 NVMe.

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

[Tested M.2 List \(/zh_tw/support/resources/m2ssd?SystemID=87532&ProductName=AS2114S-WN24RT\)](#)

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

[OS Certification Matrix \(/zh_tw/support/resources/certification/AS-2114S-WN24RT\)](#)

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

Key Applications

- Virtualization
- Hyperconverged Storage
- Cloud Computing
- All Flash Storage

Key Features

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 4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs
3. Expansion slots:
Up to 2 PCI-E 4.0 x16 (FH/HL) slots:
24-NVMe configuration (Standard) – 1 slot available
20-NVMe configuration – 2 slots available
M.2 Interface: 2 PCI-E 4.0 x2
M.2 Form Factor: 2280, 22110
M.2 Key: Onboard M-key
4. Integrated IPMI 2.0 + KVM with dedicated LAN
• **Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management**
5. 2x 10GBase-T LAN ports via Broadcom BCM57416
6. Up to 24 hot-swap 2.5" U.2 NVMe drive bays
7. 1200W 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 -2114S-WN24RT
A+ Server 2114S-WN24RT

Motherboard

H12SSW-NTR
(Aplus/motherboard/EPYC7000/H12SSW-NTR.cfm).

Processor/Chipset

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
Support CPU TDP up to 280W

Cores
Up to 64 Cores

Chipset
System on Chip (SoC)

System Memory

Memory Capacity
16 DIMM slots
Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM
8-channel memory bus

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

DIMM Sizes
4GB, 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

IPMI
Support for Intelligent Platform Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
ASPEED AST2500 BMC

Network Controllers
Broadcom BCM57416 Controller

VGA
ASPEED AST2500 BMC

Expansion Slots

PCI Express
1 or 2* PCI-E 4.0 x16 (FH/HL) slots

M.2
Interface: 2 PCI-E 4.0 x2
Form Factor: 2280, 22110
Key: Onboard M-key

Note
* 2 slots available using 20-NVMe configuration
(24 NVMe is standard)

Input / Output

NVMe
Up to 24 U.2 NVMe support

LAN
2x 10GBase-T LAN ports
1 RJ45 Dedicated IPMI LAN port

USB
5 USB 3.0 ports (4 rear + 1 Type A)

VGA
1 VGA port

Chassis

Form Factor
2U

Model
CSE-216BTS-R1K23WBP

Dimensions

Height
3.5" (89mm)

Width
17.2" (437mm)

Depth
24.8" (630mm)

Weight
Net Weight: 34 lbs (15.42 kg)
Gross Weight: 59 lbs (26.76 kg)

Front Panel

Buttons
Power On/Off button
System Reset button

LEDs
Power LED
Hard drive activity LED
2x Network activity LEDs
System Overheat LED / Fan fail LED /
UID LED

Drive Bays

Hot-swap
Up to 24 hot-swap 2.5" U.2 NVMe drive bays

System Cooling

Fans
3 heavy-duty PWM fans with optimal fan speed control

Air Shroud
1 Air Shroud

Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus

Total Output Power
1000W/1200W

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

Input
100-127Vac / 15-12A / 50-60Hz
200-240Vac / 8.5-7A / 50-60Hz
200-240Vdc / 8.5-7A (for CCC only)

+12V
Max: 83A / Min: 0A (100-127Vac)
Max: 100A / Min: 0A (200-240Vac)
Max: 100A / Min: 0A (200-240Vdc)

+5Vsb
Max: 4A / Min: 0A

Output Type
19 Pairs Gold Finger Connector

Certification


(<http://www.plugloadsolutions.com/80PlusPowerSupply?id=69&type=1>), **Titanium Level**


[Test Report
(products/powersupply/80PLUS/80PLUS_PWS1r.pdf)]

Others

- 1 COM port
- 2 SATA DOM power connectors
- TPM 1.2 header, TPM 2.0 header

System BIOS

- BIOS Type
 - AMI 256Mb SPI Flash EEPROM
- BIOS Features
 - Plug and Play (PnP)
 - DMI 2.3
 - PCI 2.2
 - ACPI 5.1
 - USB Keyboard Support
 - SMBIOS 3.1.1

PC Health Monitoring

- CPU
 - Monitors CPU Core Voltages, +1.8V, +3.3V, +5V, +5V standby, 3.3V standby
 - CPU switching voltage regulator
- FAN
 - Up to 6-fan status tachometer monitoring
 - Up to six 4-pin fan headers
 - Status monitor for speed control
 - Pulse Width Modulated (PWM) fan connectors
- Temperature
 - Monitoring for CPU and chassis environment
 - CPU Thermal Trip Support
 - Thermal control for 6x Fan connectors
 - I²C Temperature Sensing Logic
- LED
 - CPU / System Overheat LED
- Other Features
 - Chassis Intrusion Detection
 - Chassis Intrusion Header

Operating Environment / 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:

Parts List

Global SKU (/zh_tw/products/SMC_global_skus)