

A+ Server F1114S-RNTR (Complete System Only)



Integrated Board



[./Aplus/motherboard/EPYC7000/H12SSFR-AN6.cfm](https://www.dell.com/.../Aplus/motherboard/EPYC7000/H12SSFR-AN6.cfm)

Super H12SSFR-AN6 [./Aplus/motherboard/EPYC7000/H12SSFR-AN6.cfm](https://www.dell.com/.../Aplus/motherboard/EPYC7000/H12SSFR-AN6.cfm)

Views: | [Angled \(node\)](#) [./a_images/products/views/F1114S-RNTR_node_angle.jpg](#) | [Top \(node\)](#) [./a_images/products/views/F1114S-RNTR_node_top.jpg](#) | [Angled Front \(system\)](#) [./a_images/products/views/F1114S-RNTR_angleFront.jpg](#) | [Rear \(system\)](#) [./a_images/products/views/F1114S-RNTR_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, 4 DIMMs, 1 HDD/NVMe and 1 AIOM/AOC NIC card per node.

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

[Tested M.2 List](#) [./en/support/resources/m2ssd?SystemID=87639&ProductName=ASF1114S-RNTR](#)

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

[OS Certification Matrix](#) [./en/support/resources/certification/AS-F1114S-RNTR](#)

[Drive Options](#)

Key Applications

- Hyperscale / Hyperconverged
- HPC and Big Data
- Data Center Enterprise Applications
- Scale Out Storage
- Telco Data Center
- Virtualization Server

Key Features

8 Hot-pluggable System Nodes in a 4U form factor. Each node supports:

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. Expansion slots: 1 PCI-E 4.0 x16 (LP Riser), 1 PCI-E 4.0 x16 (for AIOM)
4. AIOM Network card, 1 dedicated IPMI LAN port
5. 1 VGA, 2 USB 3.0 ports
6. 6 Hot-swap 2.5" drive bays: 2 NVMe/SATA3, 4 SATA3 (optional NVMe with additional cables)
7. 3x 4cm 17.6K RPM middle fans
8. 2200W 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 -F1114S-RNTR

A+ Server F1114S-RNTR (**Black**)

Motherboard

Super H12SSFR-AN6

([./Aplus/motherboard/EPYC7000/H12SSFR-AN6.cfm](https://Aplus/motherboard/EPYC7000/H12SSFR-AN6.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

Chipset

System on Chip

SATA

SATA3 (6Gbps)

Network Controllers

Flexible networking via [AIOM](#)

([./en/support/resources/aoc/aiom](https://en/support/resources/aoc/aiom)), (not included, must add 1 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 AST2600 BMC

Input / Output (per node)

LAN

Flexible networking via AIOM

1 RJ45 Dedicated IPMI LAN port

USB

2 USB 3.0 ports (rear)

VGA

1 VGA port

Chassis

Form Factor

4U Rackmount

Model

CSE-F418BC3-R2K20B

Dimensions and Weight

Width

17.63" (448mm)

Height

6.96" (177mm)

Depth

29" (737mm)

Package

28.3" (W) x 15.0" (H) x 42.4" (D)

Weight

Net Weight: 150 lbs (68.04 kg)

Gross Weight: 200 lbs (90.71 kg)

Available Colors

Black

Front Panel (per node)

Buttons

Power On/Off button

UID button

LEDs

Power status LED

Hard drive activity LED

Network activity LEDs

Information LED (UID, Fan failure, Overheat)

Expansion Slots (per node)

PCI-Express

1 PCI-E 4.0 x16 (Low-profile riser)

1 PCI-E 4.0 x8 (Internal RAID AOC)

Drive Bays (per node)

Hot-swap

2 Hot-swap 2.5" NVMe/SATA3 and 4 SATA3 (optional NVMe with additional)

M.2

M.2 Interface: 4 SATA/PCI-E 4.0 x4

M.2 Form Factor: 2242, 2260, 2280, 22110

M.2 Key: M-Key

Backplane

1 SATA/NVMe backplane

System Cooling (per node)

Fans

3x 4cm 17.6K RPM middle fans

Power Supply

2200W 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)

Others

1 COM port
1 TPM 2.0 header

System BIOS

BIOS Type

256Mb SPI Flash EEPROM with AMI BIOS

Management

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 Power Management

PC Health Monitoring

CPU

Monitors for CPU Cores

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

Parts List

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)

Certification

(<http://www.plugloadsolutions.com/80PlusPowerSupplies>
[id=69&type=2](#)). **Titanium Level**



[[Test Report](#)

([/products/powersupply/80PLUS/80PLUS_F1R.pdf](#)),]

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:

Global SKU ([/en/products/SMC_global_skus](#))
