

IoT A+ Server AS -2115HE-TNR

2U Hyper-E with single AMD EPYC™ 9004/9005 series processor, 6 hot-swap 2.5" drive bays and up to 4 PCIe 5.0 x16 slots



More details here

Key Applications

Virtualization, Scientific Virtualization, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

Key Features

- Single AMD EPYC™ 9004/9005* Series Processor up to 400W with air cooling (*AMD EPYC™ 9005 series drop-in support requires board revision 2.x);
- Support for up to 3 double-width PCIe GPU accelerator cards;
- Up to 24 DIMMs supporting up to 3TB DDR5-4800 in 1DPC or 6TB DDR5-4000 in 2DPC or 3TB DDR5-5200 in 1DPC or 6TB DDR5-4400 in 2DPC;
- Flexible networking with up to 2 PCIe 5.0 x16 OCP 3.0 compatible AIOM slots
Optional PCIe slot configurations up to 5 PCIe 5.0 x8 FHFL and 3 PCIe 4.0 x8 FHFL or 3 PCIe 5.0 x16 FHFL and 1 PCIe 4.0 x16 FHFL slots with support for double-width GPU/Accelerator cards;
- 6 front hot-swap 2.5" NVMe drive bays;
- Redundant 2000W Titanium Level Hot-plug power supplies;
- 2U Rackmount chassis with 22.6" (574mm) depth;



Form Factor	2U Rackmount Enclosure: 436.88 x 88.9 x 574mm (17.2" x 3.5" x 22.6") Package: 598 x 247 x 938mm (23.5" x 9.7" x 36.9")
Processor	Single processor(s) AMD EPYC™ 9005/9004 Series Processors Up to 192C/384T
GPU	Max GPU Count: Up to 3 double-width or 4 single-width GPUs CPU-GPU Interconnect: PCIe Gen5 x16 GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 24 DIMM slots/12 Channels Max Memory (1DPC): Up to 3TB 5200MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (2DPC): Up to 6TB 4400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)
Drive Bays Configuration	Default: Total 6 bays <ul style="list-style-type: none"> • 6 rear hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays M.2: 1 M.2 PCIe 3.0 x4 NVMe slot (M-key 22110(default)/2280) 1 M.2 PCIe 3.0 x2 NVMe slot (M-key 22110(default)/2280)
Expansion Slots	PCI-Express (PCIe) Configuration: Option A* <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) • 3 PCIe 5.0 x16 (in x16) FHFL slots • 2 PCIe 4.0 x8 (in x16) FHFL slots Option B* <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) • 3 PCIe 5.0 x16 (in x16) FHFL slots • 1 PCIe 4.0 x16 (in x16) FHFL slot Option C <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) • 5 PCIe 5.0 x8 (in x16) FHFL slots • 3 PCIe 4.0 x8 (in x16) FHFL slots M.2: 1 M.2 PCIe 3.0 x4 slot (M-key 22110(default)/2280) 1 M.2 PCIe 3.0 x2 slot (M-key 22110(default)/2280) PCI: 8 PCI 5V 32-bit slots
On-Board Devices	Via AIOM

Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port

USB: 2 USB 3.0 Type-A ports(Front)

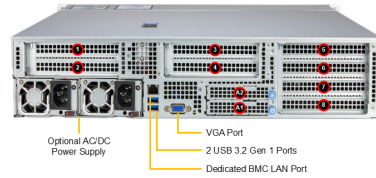
Video: 1 VGA port

(Front View – System)



Drive Bay	Description
①-⑥	6 Hot-swap 2.5" NVMe Drive Bays

(Rear View – System)



Slot Description			Slot Description		
Option 1*	Option 2*	Option 3*	Option 1*	Option 2*	Option 3*
① PCIe 5.0 x16 FH/FL	PCIe 5.0 x16 FH/FL	PCIe 5.0 x8 FH/FL	① PCIe 5.0 x16 FH/FL	PCIe 5.0 x16 FH/FL	PCIe 5.0 x8 FH/FL
② ---	---	PCIe 4.0 x8 FH/FL	② ---	---	PCIe 5.0 x8 FH/FL
③ PCIe 5.0 x16 FH/FL	PCIe 5.0 x16 FH/FL	PCIe 5.0 x8 FH/FL	③ PCIe 4.0 x8 FH/FL	PCIe 4.0 x16 FH/FL	PCIe 4.0 x8 FH/FL
④ ---	---	PCIe 5.0 x8 FH/FL	④ PCIe 4.0 x8 FH/FL	---	---
⑤ ---	---	---	⑤ PCIe 4.0 x8 FH/FL	---	---

*Requires additional parts from the optional parts list

Slot Description
⑥ AIOM / OCP NIC 3.0 (optional)**
⑦ AIOM / OCP NIC 3.0

System Cooling

Fans: Up to 6x 6cm heavy duty fans with optimal fan speed control
Air Shroud: 1 Air Shroud

Power Supply

2x 2000W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

System BIOS

BIOS Type: AMI 32MB SPI Flash EEPROM
BIOS Features: ACPI 6.4
Plug and Play (PnP)
SMBIOS 3.5 or later
UEFI 2.8
USB Keyboard support

Management

SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); OOB Management Package (SFT-OOB-LIC); SuperServer Automation Assistant (SAA) New!

PC Health Monitoring

Fan: Fans with tachometer monitoring
Pulse Width Modulated (PWM) fan connectors
Status monitor for speed control
Temperature: Monitoring for CPU and chassis environment
Thermal Control for fan connectors
Voltage:
System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support

Dimensions and Weight

Weight: Gross Weight: 47.4 lbs (21.5 kg)
Net Weight: 34.4 lbs (15.6 kg)
Available Color: Silver

Operating Environment

RoHS Compliant
Operating Temperature: 10°C to 30°C (50°F to 86°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: 5% to 95% (non-condensing)

Motherboard

[Super H13SSH-E](#)

Chassis

CSE-HE211-R000NFP-A