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 • 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* • 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* • 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 • 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 TPM: 1 TPM header

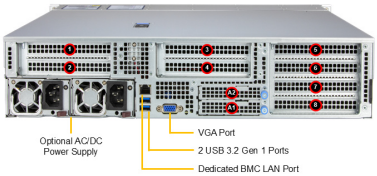
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(Front View – System)



Drive Bay	Description
0 – 5	6 Hot-swap 2.5" NVMe Drive Bays

(Rear View – System)



	Slot Description		
	Option 1*	Option 2**	Option 3*
1	PCIe 5.0 x16 FHFL	PCIe 5.0 x16 FHFL	PCIe 5.0 x8 FHFL
2	---	---	PCIe 4.0 x8 FHFL
3	PCIe 5.0 x16 FHFL	PCIe 5.0 x16 FHFL	PCIe 5.0 x8 FHFL
4	---	---	PCIe 5.0 x8 FHFL

	Slot Description		
	Option 1*	Option 2*	Option 3*
5	PCIe 5.0 x16 FHFL	PCIe 5.0 x16 FHFL	PCIe 5.0 x8 FHFL
6	---	---	PCIe 5.0 x8 FHFL
7	PCIe 4.0 x8 FHHL	PCIe 4.0 x16 FHHL	PCIe 4.0 x8 FHHL
8	PCIe 4.0 x8 FHFL	---	PCIe 4.0 x8 FHFL

* Requires additional parts from the optional parts list

	Slot Description
AO	AIOM / OCP NIC 3.0 (optional)*
AS	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	**A+ Motherboard® H13SSH-E**
Chassis	**CSE-HE211-R000NFP-A**

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