IoT SuperServer AS -E300-14GR

Mini-1U Embedded System with AMD EPYC™ 4004/4005 or Ryzen™ 7000/9000 Series Processor up to 65W TDP

Key Applications

Healthcare, Surveillance Security Server, AI Inference, Digital Signage / PoS,

Key Features

- Single AMD EPYC™ 4005/4004 & Ryzen™ 9000/7000 Series Processors up to 65W with air cooling;
- Support for PCIe GPU accelerator cards;
- Up to 4 DIMMs supporting up to 192GB DDR5-5600 UDIMM;
- Up to 1 PCIe 5.0 x16 LP slots;
- Up to 1 internal fixed 2.5" SATA drive bays;
- 1 180W power supply;
- Fan-based Embedded chassis with 8.89" (225.8mm) depth;

Form Factor	Fan-based Embedded Enclosure: 264.8 x 43 x 225.8mm (10.43" x 1.69" x 8.89") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")
Processor	Single processor(s) AMD EPYC™ 4004 / 4005 or AMD Ryzen™ 7000 / 9000 Series Processors 16C/32T; 64MB Cache
System Memory	Slot Count: 4 DIMM slots Max Memory (1DPC): 192GB 5600MT/s ECC/non-ECC DDR5 UDIMM
Drive Bays Configuration	Default: Total 1 bay • 1 internal fixed 2.5" SATA* drive bay (*SATA support may require additional storage controller and/or cables) M.2: 1 M.2 PCIe 5.0 x4 NVMe slot (M-key 2280) 1 M.2 PCIe 5.0 x4 NVMe slot (M-key 22110)
Expansion Slots	Default* • 1 PCIe 5.0 x16 (in x16) LP slot (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.)
On-Board Devices	AMD B650

Input / Output	LAN: 4 RJ45 1 GbE LAN ports (Intel® I350-AM4)
	     1 RJ45 1 GbE Dedicated BMC LAN port (ASPEED AST2600)
	USB: 2 USB 3.2 Gen2 Type-A ports(Rear)
	     1 USB 3.2 Gen1 Type-A port(Rear)
	     1 USB 3.2 Gen1 Type-C port(Rear)
	Video: 1 HDMI 2.1 port(Rear)
	     1 Mini-DP port(Rear)
	TPM: 1 TPM header
	     1 TPM Onboard/port 80

(Front View – System)

(Rear View – System)

Front LEDs

Reset Button

Power Button

Lockable
12V DC-in

1 IPMI Port

Four 1GbE RJ45 Ports

2 USB 3.2 Ports

1 HDMI 2.1 Port

2 USB 3.2 Ports

Mini DisplayPort Port

	Slot Description
❶	PCIe 5.0 x16 LP

System Cooling	Fans: Up to 1 CPU heatsink with 70x70x15mm Fan(s) Up to 2x 4-PIN PWM 40x40x28mm Fan(s)
Power Supply	1x 180W power supply
System BIOS	BIOS Type: AMI 32MB UEFI BIOS Features: ACPI 6.5 SMBIOS 3.7 or later UEFI 2.9
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!; Plug-ins for 3rd Party Software
PC Health Monitoring	FAN: Status monitor for speed control
Dimensions and Weight	Weight: Gross Weight: 7.5 lbs (3.4 kg) Net Weight: 3.7 lbs (1.6 kg) Available Color: Black
Operating Environment	Operating Temperature: 0°C to 40°C (32°F to 104°F) with 0.7 m/s airflow 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 H14SRV-HLN4F**
Chassis	**CSE-E300**