

IoT SuperServer SYS-E300-13AD5

Mini-1U embedded system with Intel® Core™ Processors Series 2, up to 65W TDP



Key Applications

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

Key Features

- Intel® Core Processors Series 2 & 14th/13th/12th Gen Core i Processor, Single Socket LGA-1700 supported, CPU TDP supports Up to 65W TDP (**bios v5.0 or above);
- Support for up to 1 single-width PCIe GPU accelerator cards;
- Up to 2 DIMMs supporting up to 64GB DDR5-5600 in 2DPC;
- 1 RJ45 1GbE + 1 RJ45 2.5GbE;
- Up to 1 PCIe 5.0 x16 LP slots (Optional);
- Support up to 1x 2.5" drive bays (Optional);
- 1 180W power supply;
- Fan-based Embedded chassis with 8.89" (225.8mm) depth;

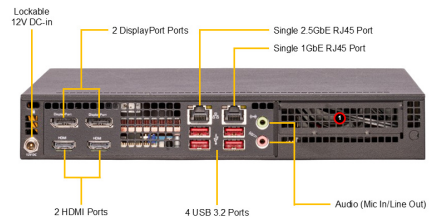


Form Factor	Fan-based Embedded Enclosure: 264.8 x 43 x 225.8mm (10.43" x 1.69" x 8.89") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")
Processor	Single Socket V0 14th/13th/ 12th Generation Intel Core i9/Core i7/Core i5/Core i3/Pentium/Celeron Processor Up to 24C/32T; Up to 36MB Cache
GPU	1 single-width GPU
System Memory	Slot Count: 2 DIMM slots Max Memory (2DPC): Up to 64GB 5600MT/s non-ECC DDR5 SO-DIMM
Drive Bays Configuration	Default: Total 1 bay <ul style="list-style-type: none"> • 1 internal fixed 2.5" SATA* drive bay (*SATA support may require additional storage controller and/or cables) M.2: 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280)
Expansion Slots	PCI-Express (PCIe) Configuration: Default* <ul style="list-style-type: none"> • 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.) M.2: 1 M.2 PCIe 3.0 x1 slot (E-key 2230)
On-Board Devices	Intel® Q670E
Input / Output	LAN: 1 RJ45 1 GbE LAN port (Intel® I210-AT) 1 RJ45 2.5 GbE LAN port (Intel® I226-LM) USB: 4 USB 3.2 Gen2 Type-A ports(Rear) Video: 1 HDMI 2.0b port(Rear) 1 HDMI 1.4 port(Rear) 2 DisplayPort ports(Rear) Audio: Line Out Mic in

(Front View – System)



(Rear View – System)



Slot	Slot Description
1	PCIe 5.0 x16 LP

System Cooling	Fans: Up to 1 CPU heatsink with $\Phi 80 \times 15 \text{mm}$ Fan(s) Up to 2x 4-PIN PWM 40x40x28mm Fan(s)
Power Supply	1x 180W power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash BIOS Features: ACPI 6.0 Plug and Play (PnP) RTC (Real Time Clock) Wakeup SPI dual/quad speed support
Management	Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); SuperServer Automation Assistant (SAA) New!
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 X13SAV-D5LVDS
Chassis	CSE-E300