

# IoT SuperServer SYS-E300-13AD

Mini-1U Embedded System with 13th/12th Generation Intel® Core™, up to 16 cores



More details here

## Key Applications

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

## Key Features

- 13th/12th Generation Intel® Core™ i9/i7/i5/i3/Pentium/Celeron Processor (LGA-1700);
- Intel® Q670E;
- 2x DDR4-3200MHz SO-DIMM max 64GB;
- Support M.2 M/E-Key  
Support 1x PCIe 5.0 x16 Slot (Optional);
- AMT vPro Supported;
- Support up to 2x 2.5" drive bays (Optional);
- Quad Independent Display by 2x HDMI and 2x DP;

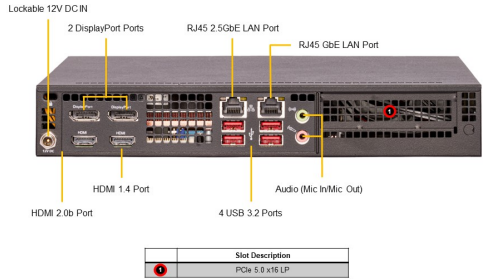


Form Factor	<p>Fan-based Embedded</p> <p>Enclosure: 264.8 x 43 x 225.8mm (10.43" x 1.69" x 8.89")</p> <p>Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")</p>
Processor	<p>Single LGA-1700</p> <p>13th/12th Gen Intel® Core i9/Core i7/Core i5/Core i3/Pentium/Celeron processor</p> <p>Up to 16C/32T; Up to 30MB Cache</p>
GPU	<p>Max GPU Count: 1 single-width GPU</p> <p>Supported GPU: NVIDIA PCIe: A1000, L4</p> <p>NVIDIA: RTX A400</p>
System Memory	<p>Slot Count: 2 DIMM slots</p> <p>Max Memory (2DPC): Up to 64GB 3200MT/s non-ECC DDR4 SO-DIMM</p>
Drive Bays Configuration	<p>Default: Total 1 bay</p> <ul style="list-style-type: none"> <li>• 1 internal fixed 2.5" SATA* drive bay</li> </ul> <p>(*SATA support may require additional storage controller and/or cables)</p> <p>M.2: 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280)</p>
Expansion Slots	<p>PCI-Express (PCIe) Configuration:</p> <p>Default*</p> <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 (in x16) LP slot</li> </ul> <p>(*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.)</p> <p>M.2: 1 M.2 PCIe 3.0 x1 slot (E-key 2230)</p>
On-Board Devices	<p>Chipset: Intel® Q670E</p> <p>Network Connectivity: 1 RJ45 1GbE with Intel® I210-AT</p> <p>1 RJ45 2.5GbE with Intel® I225-LM</p>
Input / Output	<p>LAN: 1 RJ45 2.5 GbE LAN port (Intel® I225-LM)</p> <p>1 RJ45 1 GbE LAN port (Intel® I210-AT)</p> <p>USB: 4 USB 3.2 Gen2 Type-A ports(Rear)</p> <p>Video: 1 HDMI 2.0b port(Rear)</p> <p>1 HDMI 1.4 port(Rear)</p> <p>2 DisplayPort ports(Rear)</p> <p>Audio: Line Out</p> <p>Mic in</p>

(Front View – System)



(Rear View – System)



System Cooling	Fans: Up to 2x 4-PIN PWM 40x40x28mm Fan(s) Up to 1 CPU heatsink with Ø80x15mm 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	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); 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	<a href="#">Super X13SAV-LVDS</a>
Chassis	CSE-E300