Embedded SuperServer SYS-E300-14AR

Mini-1U Embedded System with Intel® Core™ Ultra processor up to 65W TDP

Key Applications

Digital Signage, Surveillance Security Server, Medical Applications, AI Inference,

Key Features

- Single Intel® Core™ Ultra 9/7/5 Series 2 Processor up to 65W with air cooling;
- Support Low-Profile of PCIe GPU cards;
- Up to 2 ECC/Non-ECC SODIMMs supporting up to 96GB with DDR5-6400MT/s;
- 2 RJ45 2.5GbE + 2 RJ45 10GbE LAN ports;
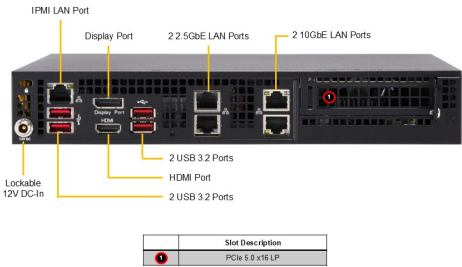- 1 PCIe 5.0 x16 LP slots;
- 1 internal fixed 2.5" SATA drive bays;

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 LGA-1851 Intel® Core™ Ultra 9/7/5 (Series 2) processors
System Memory	Slot Count: 2 DIMM slots Max Memory (1DPC): Up to 96GB 6400MT/s ECC/non-ECC DDR5 SO-DIMM
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)
Expansion Slots	PCI-Express (PCIe) Configuration: 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.) M.2: 1 M.2 PCIe 4.0 x2 slot (B-key 3052)
On-Board Devices	Intel® W880

Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
	      2 RJ45 10 GbE LAN ports (Intel® X550)
	      2 RJ45 2.5 GbE LAN ports (Intel® I226-LM)
	USB: 4 USB 3.2 Gen2 Type-A ports(Rear)
	Video: 1 VGA port(Rear)
	      1 DisplayPort port(Rear)
	      1 HDMI port(Rear)
	TPM: 1 TPM header
	      1 TPM Onboard/port 80

(Front View – System)

(Rear View – System)

Front LEDs

Reset Button   Power Button

IPMI LAN Port

Display Port   2 2.5GbE LAN Ports   2 10GbE LAN Ports

2 USB 3.2 Ports

Lockable
12V DC-In

HDMI Port

2 USB 3.2 Ports

	Slot Description
❶	PCIe 5.0 x16 LP

System Cooling	Fans: 1 CPU heatsink with Φ80x15mm Fan(s) 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
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 X14SAV-TLN4F**
Chassis	**CSE-E300**