

# Embedded SuperServer SYS-512AR-N4T

1U Compact Edge Server with 4x 3.5" SATA bays



More details here

## Key Applications

Multi-Access Edge Computing (MEC), Video Surveillance, Retail, Edge AI,

## Key Features

- Intel® Arrow Lake-S, 15th Gen Core Ultra 5/7/9 Processor, 95W;
- DDR5 5600MHz, 4 slots ECC/Non-ECC UDIMM, up to 192GB;
- 2x 2.5GbE and 2x 10GbE LAN;
- 1 PCIe 5.0 x16 FHHL slot;
- 4x SATA3 3.5" Drive Bays;
- 600W/800W 100-240Vac Titanium/Platinum Single Power Supply (can be upgraded to redundant power supply);



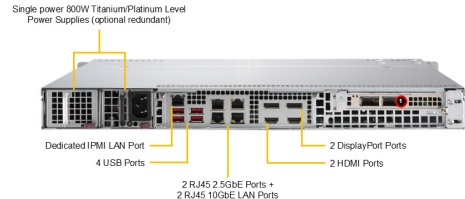
<b>Form Factor</b>	1U Rackmount Enclosure: 437 x 43 x 507mm (17.2" x 1.7" x 19.98") Package: 609.6 x 215.9 x 749.3mm (24" x 8.5" x 29.5")
<b>Processor</b>	Single LGA-1851 Intel® Core™ Ultra 9/7/5 (Series 2) processors 24C/24T; 36MB Cache
<b>System Memory</b>	Slot Count: 4 DIMM slots/2 Channels Max Memory (1DPC): 192GB 5600MT/s ECC/non-ECC DDR5 UDIMM Max Memory (2DPC): 192GB 4400MT/s ECC/non-ECC DDR5 UDIMM
<b>Drive Bays Configuration</b>	Default: Total 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5" SATA drive bays</li> </ul> M.2: 1 M.2 PCIe 5.0 x4 NVMe slot (M-key 2280/22110)
<b>Expansion Slots</b>	Default <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHHL slot</li> </ul>
<b>On-Board Devices</b>	SATA: SATA (6Gbps) via Intel® W880; RAID 0/1/5/10 support(Port 1 to 4) Chipset: System on Chip Network Connectivity: 2 RJ45 10GbE with Intel® X550
<b>Input / Output</b>	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports (Intel® X550-AT2) 2 RJ45 2.5 GbE LAN ports (Intel® I226) USB: 4 USB 3.2 Gen2 Type-A ports(Rear) Video: 2 DisplayPort 1.4 ports(Rear) 2 HDMI 2.1 ports(Rear) TPM: 1 TPM header 1 TPM Onboard/port 80

(Front View – System)



Drive Bay	Description
	4 Hot-swap 3.5" SAS/SATA3 Drive Bays

(Rear View – System)



Slot	Slot Description
	PCIe 5.0 x16 FH/FL

System Cooling	Fans: Up to 6x 4cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	1x 800W Redundant Platinum Level (94%) power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 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: Voltage, VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
Dimensions and Weight	Weight: Gross Weight: 30.4 lbs (13.8 kg) Net Weight: 17.6 lbs (8 kg) Available Color: Black
Operating Environment	Operating Temperature: 0°C to 40°C (32°F to 104°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 href="#">Super X14SAZ-TLN4F</a>
Chassis	CSE-813MF2TS-R000CNBP-2