IoT SuperServer SYS-E302-12A-4C

Embedded Mini-ITX Fanless Box based on Intel Atom processor C5000 SoC

More details here

Key Applications

IoT Gateway, Embedded Networking Applications, Industrial Automation, Retail, Artificial Intelligence, Machine Learning (ML), Networking Security Appliance, SD-WAN,



Key Features

- Intel® Atom® Parker Ridge processor C5315, TDP 38W;
- Up to 128GB ECC RDIMM DDR4-2400MHz, in 2 DIMM slots;
- 1x M.2 B-Key 3052, 1x M.2 M-Key 2280;
- 1x dedicated LAN for IPMI, 6x Networking Interface (2x 10G SFP+, 4x 1G RJ45);
- 1x 2.5" SATA drives;
- Fanless Cooling, Operating Temperature: 0°C to 45°C (32°F to 113°F);
- Lockable 12V DC 150W Power Adapter;
- Intel® Quick Assist Technology;
- VGA via BMC, 2 USB 3.0 ports;

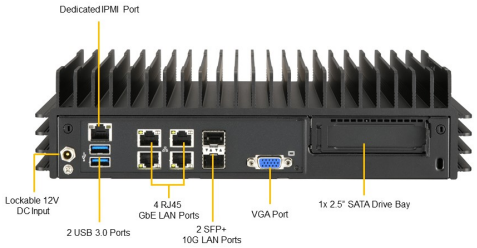
Form Factor	Fanless Embedded Enclosure: 295 x 76 x 206mm (11.6" x 3" x 8.1") Package: 418 x 305 x 194mm (16.45" x 12" x 7.6")
Processor	Single FCBGA-2106 Intel® Atom® processor C5315 4C/8T; 9MB Cache
System Memory	Slot Count: 2 DIMM slots Max Memory (2DPC): 128GB 2400MT/s ECC DDR4 RDIMM
Drive Bays Configuration	Default: Total 1 bay • 1 internal fixed 2.5" SATA drive bay M.2: 1 M.2 PCIe 3.0 x4 NVMe slot (M-key 2280)
Expansion Slots	1 M.2 NVMe/SATA slot (B-key 3052)
On-Board Devices	SATA: SATA (6Gbps) Network Connectivity: 2 SFP+ 10GbE with Intel® C5000 SoC 4 RJ45 1GbE
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 SFP+ 10 GbE LAN ports 4 RJ45 1 GbE LAN ports USB: 2 USB 3.0 ports Video: 1 VGA port

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(Front View – System)



(Rear View – System)



Power Supply	1x 150W power supply
System BIOS	BIOS Type: AMI 32MB UEFI BIOS Features: UEFI 2.7 ACPI 6.0 or later SMBIOS 3.0 or later
Management	SuperCloud Composer® (SCC); 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: 12 lbs (5.44 kg) Net Weight: 8 lbs (3.63 kg) Available Color: Black
Operating Environment	Operating Temperature: 0°C to 45°C (32°F to 113°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	**Super A3SPI-4C-LN6PF-01**
Chassis	**CSE-E302iL3**

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