

# 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;

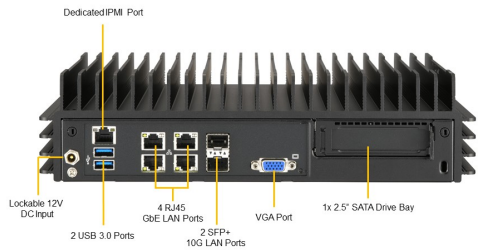


|                          |   |
|--------------------------|---|
| Form Factor              | Fanless Embedded<br>Enclosure: 295 x 76 x 206mm (11.6" x 3" x 8.1")<br>Package: 418 x 305 x 194mm (16.45" x 12" x 7.6")                                     |
| Processor                | Single FCBGA-2106<br>Intel® Atom® processor C5315<br>4C/8T; 9MB Cache   |
| System Memory            | Slot Count: 2 DIMM slots<br>Max Memory (2DPC): 128GB 2400MT/s ECC DDR4 RDIMM  |
| Drive Bays Configuration | Default: Total 1 bay <ul style="list-style-type: none"> <li>• 1 internal fixed 2.5" SATA drive bay</li> </ul> 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)<br>Chipset: System on Chip<br>Network Connectivity: 2 SFP+ 10GbE with Intel® C5000 SoC<br>4 RJ45 1GbE                                    |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>2 SFP+ 10 GbE LAN ports<br>4 RJ45 1 GbE LAN ports<br>USB: 2 USB 3.0 ports<br>Video: 1 VGA port                  |

(Front View – System)



(Rear View – System)



|                       |  |
|-----------------------|--|
| System Cooling        | Fans: N/A  |
| Power Supply          | 1x 150W power supply   |
| System BIOS           | BIOS Type: AMI 32MB UEFI<br>BIOS Features: UEFI 2.7<br>ACPI 6.0 or later<br>SMBIOS 3.0 or later  |
| 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: 12 lbs (5.44 kg)<br>Net Weight: 8 lbs (3.63 kg)<br>Available Color: Black  |
| Operating Environment | Operating Temperature: 0°C to 45°C (32°F to 113°F)<br>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing)  |
| Motherboard           | <a href="#">Super A3SPI-4C-LN6PF-01</a>  |
| Chassis               | CSE-E302iL3  |