

# IoT SuperServer SYS-E102-13R-E

Compact embedded Box PC on 3.5" Intel Raptor Lake MB



[More details here](#)

## Key Applications

IoT Gateway, Healthcare, Retail, Edge AI,

## Key Features

- Intel® Intel® Raptor Lake-P i5-1350PE 12C/16T Processor;
- Dual Channel DDR5 4800MHz SO-DIMM, up to 64GB;
- 2x 2.5GbE LAN Ports;
- 1x 2.5" 7mm Storage Drive;
- 1x M.2 M-Key 2242/2280 (PCIe x4), 1x M.2 E Key 2230, 1x M.2 B-key 2242/3042/2280;
- 4x USB 3.2 Ports Gen2, 2x HDMI Port, 2x DisplayPort (2x USB type-C for USB & DP);

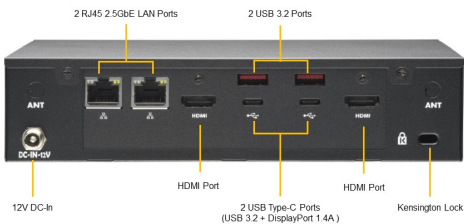


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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | Fan-based Embedded<br>Enclosure: 190 x 44 x 120mm (7.48" x 1.72" x 4.72")<br>Package: 300 x 130 x 279mm (11.81" x 5.12" x 11.02")                                                                                        |
| Processor                | Single processor(s)<br>13th Generation Intel® Core™ i5-1350PE Processor<br>12C/16T; 12MB Cache                                                                                                                           |
| System Memory            | Slot Count: 2 DIMM slots<br>Max Memory (2DPC): 64GB 4800MT/s non-ECC DDR5 SO-DIMM                                                                                                                                        |
| 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 NVMe slot (M-key 2280)                                                                          |
| Expansion Slots          | 1 M.2 NVMe slot (E-key 2230)<br>1 M.2 NVMe slot (B-key 2242/2280/3042)                                                                                                                                                   |
| On-Board Devices         | SATA: SATA (6Gbps)<br>Network Connectivity: 2 RJ45 2.5GbE with Intel® I226-IT                                                                                                                                            |
| Input / Output           | LAN: 2 RJ45 2.5 GbE LAN ports<br>USB: 2 USB 3.2 Gen2 Type-A ports(Rear)<br>2 USB 3.2 Gen2 Type-C ports(Rear)<br>Video: 1 HDMI 2.0b port(Rear)<br>1 HDMI 1.4b port(Rear)<br>2 DisplayPort over USB Type-C 1.4 ports(Rear) |

(Front View – System)



(Rear View – System)



|                       |                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 1x 4-PIN PWM 40x40x15mm Fan(s)                                                                                                                                                                                                             |
| Power Supply          | 1x 84W power supply                                                                                                                                                                                                                                    |
| System BIOS           | BIOS Type: AMIUEFI<br>BIOS Features: ACPI 6.4<br>SMBIOS 3.5 or later<br>UEFI 2.8B<br>PCI F/W 3.3                                                                                                                                                       |
| Management            | SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM);<br>Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS);<br>SuperServer Automation Assistant (SAA) New! |
| Dimensions and Weight | Weight: Gross Weight: 4.5 lbs (2 kg)<br>Net Weight: 2.65 lbs (1.2 kg)<br>Available Color: Black                                                                                                                                                        |
| Operating Environment | Operating Temperature: 0°C to 40°C (32°F to 104°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 X13SRN-E-WOHS</a>                                                                                                                                                                                                                    |
| Chassis               | CSE-E102TF2                                                                                                                                                                                                                                            |