

IoT SuperServer SYS-E103-14P-H

Fanless Edge AI System with Intel® Core™ Ultra Series 3 processor, up to 180 TOPS, up to 128GB DDR5, 2x 2.5GbE LAN ports, 2x HDMI 2.1



Key Applications

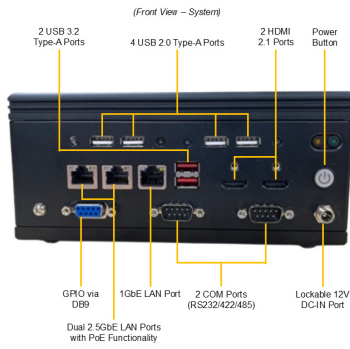
IoT Gateway, Computer Vision, Industrial Automation, Healthcare, Smart Building, Security and Surveillance, Smart Retail, Edge AI Inferencing, Edge AI, Digital Signage / PoS,

Key Features

- AI Performance is up to 180 TOPS through the CPU/GPU/NPU hybrid computing;
- Fanless Embedded chassis with 5.5" (140mm) depth;
- Intel® Panther Lake-H Core Ultra 7 368H, up to 25W;
- Up to 2 CSO/SO-DIMMs supporting up to 128GB DDR5-5600MHz;
- 2 2.5GbE LAN with PoE and 1 1GbE LAN support Intel vPro;
- 1 M.2 M-key 2242/2280, PCIe Gen5x4; 1 M.2 E-key 2230, PCIe Gen4x1/USB2.0; 1 M.2 B-key 2242/2280/3052 w/ nano SIM, PCIe Gen4x1 and USB3.2/USB2.0;
- 2 HDMI 2.1; 2 USB 3.2 Gen 2& 4 USB2.0; 2 RS-232/422/485; 1 8 bits GPIO;
- 2 NVMe 2280 at 2 M.2 M-Key;
- DC 12-36V wide range power input support; 1 Lockable 150W 12V DC Power Adapter;



Form Factor	Fanless Embedded Enclosure: 185 x 83 x 140mm (7.28" x 3.27" x 5.5") Package: 290 x 200 x 230mm (11.42" x 7.87" x 9.06")
Processor	Single FCBGA-2540 Intel® Core™ Ultra X7 Processor 368H Up to 16C/16T; Up to 18MB Cache
GPU	Max GPU Count: 1 onboard GPU Supported GPU: Intel Arc™ B390 GPU
System Memory	Slot Count: 2 DIMM slots/2 Channels Max Memory (1DPC): Up to 128GB 5600MT/s non-ECC DDR5 SO-DIMM
Drive Bays Configuration	1 M.2 PCIe 4.0 x2 NVMe slot (M-key 2280(default)) 1 M.2 PCIe 5.0 x4 NVMe slot (M-key 2280(default)/2242)
Expansion Slots	1 M.2 PCIe 4.0 x2 NVMe slot (M-key 2280(default)) 1 M.2 PCIe 4.0 x1 slot (E-key 2230(default); USB 2.0) 1 M.2 PCIe 5.0 x4 NVMe slot (M-key 2280(default)/2242) 1 M.2 PCIe 4.0 x1 NVMe slot (B-key 3052(default)/2242/2280; USB 3.0)
On-Board Devices	Chipset: System on Chip Network Connectivity: 2 RJ45 2.5GbE with Intel® I226-IT 1 RJ45 1GbE with Intel® I219-LM
Input / Output	LAN: 1 RJ45 1 GbE LAN port (Intel® I219-LM) 2 RJ45 2.5 GbE LAN ports (Intel® I226-IT) USB: 2 USB 2.0 Type-A ports(front) 2 USB 3.2 Gen2 Type-A ports(Front) Video: 2 HDMI 2.1 ports(Front) Serial: 2 COM RS232/RS422/RS485 ports(Front) Others: 1 SMBus 8-bit GPIO port



System Cooling	Fans: N/A
Power Supply	1x 150W power supply
System BIOS	<p>BIOS Type: AMIUEFI</p> <p>BIOS Features: ACPI 6.4</p> <p>SMBIOS 3.5 or later</p> <p>UEFI 2.8</p> <p>PCI F/W 3.0</p>
Management	<p>Supermicro Server Manager (SSM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); SuperServer Automation Assistant (SAA) New!</p>
Dimensions and Weight	<p>Weight: Gross Weight: 4.75 lbs (2.15 kg)</p> <p>Net Weight: 3.25 lbs (1.47 kg)</p> <p>Available Color: Black</p>
Operating Environment	<p>RoHS Compliant</p> <p>Operating Temperature: 0°C to 45°C (32°F to 113°F)</p> <p>Non-operating Temperature: 0°C to 60°C (32°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>
Motherboard	Super X14SPN-H
Chassis	CSE-E102L3