

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, 2 HDMI® ports



Key Applications

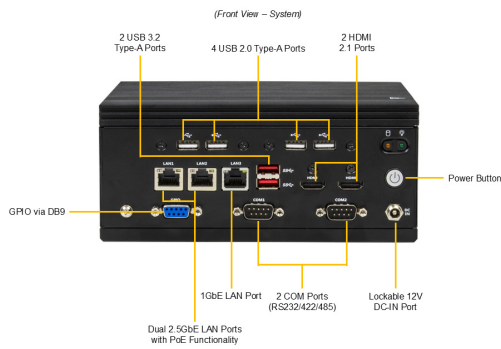
IoT Gateway, Computer Vision, Industrial Automation, Healthcare, Smart Building/Security and Surveillance, Smart Retail, Edge AI Inferencing, Edge AI, Digital Signage / PoS,

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	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 3.2 Gen2 Type-A ports (Front) 4 USB 2.0 Type-A ports (Front) Video: 2 HDMI® 2.1 port(s) (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	BIOS Type: AMIUEFI BIOS Features: ACPI 6.4 SMBIOS 3.5 or later UEFI 2.8 PCI F/W 3.0
Management	Supermicro Server Manager (SSM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); SuperServer Automation Assistant (SAA) New!
Dimensions and Weight	Weight: Gross Weight: 4.75 lbs (2.15 kg) Net Weight: 3.25 lbs (1.47 kg) Available Color: Black
Operating Environment	RoHS Compliant Operating Temperature: 0°C to 45°C (32°F to 113°F) Non-operating Temperature: 0°C to 60°C (0°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super X14SPN-H
Chassis	CSE-E102L3