



Main Features

- Dual Socket E (LGA-4677) 4th Gen Intel® Xeon® Scalable processors
- 32 DIMM Slots, Up to 8TB: 32x 256GB DRAM
- Configurable PCIe slot options up to 8 PCIe 5.0 x8 (6 FHFL+ 2 FHHL) or 4 PCIe 5.0 x16 (3 FHFL + 1 FHHL)
- Flexible networking options with 2 AIOM networking slots (OCP NIC 3.0 compatible)
- Up to 6x 2.5" hot-swap drive bays with options to support NVMe/SATA drives
- 6 heavy duty hot-swap fans with optimal fan speed control
- Redundant 2000W AC power supplies

Product Overview

5G Core and Edge, Telecom Micro Data Center, AI Inference and Machine Learning, Network Function Virtualization, Cloud Computing.

Specifications

Form Factor

- 2U Rackmount
- Enclosure: 436.88 x 88.9 x 574mm (17.2" x 3.5" x 22.6")
- Package: 598 x 247 x 938mm (23.5" x 9.7" x 36.9")

Processor

- Dual Socket E (LGA-4677) for 4th Gen Intel® Xeon® Scalable processors

System Memory

- Memory Capacity: 32 DIMM slots
- Up to 8TB: 32x 256 GB DRAM
- Memory Type: 4800MHz ECC DDR5 RDIMM

Drive Bays

- 6x 2.5" hot-swap NVMe/SATA/SAS drive bays (6x 2.5" NVMe hybrid)
- 2 M.2 NVMe OR 2 M.2 SATA3
- M-Key, 2280/22110

Expansion Slots

- 6 PCIe 5.0 x16 FHFL slot(s)
- 2 PCIe 5.0 x16 FHHL slot(s)
- * Note: If Slot 1 is configured as PCIe x16, Slot 2 will be disabled; If Slot 3 is configured as PCIe x16, Slot 4 will be disabled; If Slot 5 is configured as PCIe x16, Slot 6 will be disabled; (Optional) If Slot 7 is configured as PCIe x16, Slot 8 will be disabled.

On-Board Devices

- SATA: SATA3 (6Gbps); RAID 0/1/5/10 support
- NVMe: NVMe; RAID 0/1/5/10 support (Intel® VROC RAID Key required)
- Chipset: Intel® C741
- Network Connectivity:
 - 2x 25GbE SFP28 with Broadcom® BCM57414 (optional)
 - 2x 100GbE QSFP28 with Broadcom® BCM57508 (optional)
 - 2x 100GbE QSFP28 with Intel® E810-CAM2 (optional)
 - 2x 100GbE QSFP28 with Mellanox® CX-6 DX (optional)

- 4x 10GbE SFP+ with Intel® X710-BM2 (optional)
- 4x 10GbE BaseT with Intel® X550 (optional)
- IPMI:
 - Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

- LAN: 1 RJ45 Dedicated BMC LAN port
- USB: 2 USB 2.0 port(s) (2 front)
- Video: 1 VGA port(s)

System Cooling

- Fans: 6 Counter-rotating, Hot-swappable 6cm Fan(s)

Power Supply

- 2000W Redundant Titanium Level power supplies

System BIOS

- BIOS Type: AMI 256MB SPI Flash

Management

- Redfish API
- Supermicro Server Manager (SSM)
- Supermicro Power Manager (SPM)
- Supermicro Update Manager (SUM)
- SuperDoctor® 5
- Super Diagnostics Offline
- KVM with dedicated LAN
- IPMI 2.0

PC Health Monitoring

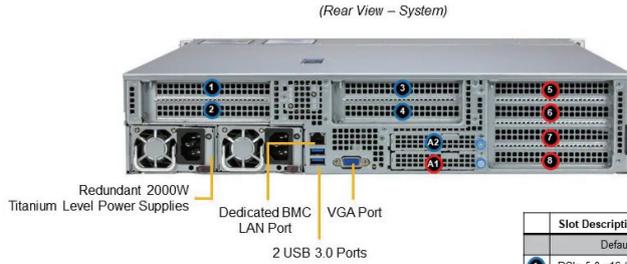
- CPU: Monitors for CPU Cores, Chipset Voltages, Memory
- FAN:
 - Fans with tachometer monitoring
 - Status monitor for speed control
 - Pulse Width Modulated (PWM) fan connectors

I/O Connectors



Slot	Description
0 – 3	2.5" Hot-swap NVMe/SATA3/SAS3* Drive Bays (NVMe from CPU1)
4 – 6	2.5" Hot-swap NVMe/SATA3/SAS3* Drive Bays (NVMe from CPU2)

*SAS3 support requires additional parts from the optional parts list



Slot Description	
Default	Optional*
1 PCIe 5.0 x16 (FHFL)	PCIe 5.0 x8 (FHFL)
2 ---	PCIe 5.0 x8 (FHFL)
3 PCIe 5.0 x16 (FHFL)	PCIe 5.0 x8 (FHFL)
4 ---	PCIe 5.0 x8 (FHFL)

Slot Description		
Default	Optional 1	Optional 2*
5 PCIe 5.0 x16 (FHFL)	PCIe 5.0 x8 (FHFL)	PCIe 5.0 x16 (FHFL)
6 ---	PCIe 5.0 x8 (FHFL)	---
7 PCIe 5.0 x8 (FHHHL)	PCIe 5.0 x8 (FHHHL)	PCIe 5.0 x16 (FHHHL)
8 PCIe 5.0 x8 (FHHHL)	PCIe 5.0 x8 (FHHHL)	---

Slot Description	
A2	AIOM/OCN NIC 3.0
A1	AIOM/OCN NIC 3.0

* Slot 1-4 optional configuration requires two optional cables
 * Slot 5-6 optional configuration 2 requires switching 2U RSC to optional 2URSC.

CPU1 CPU2

- Temperature:
 - Monitoring for CPU and chassis environment
 - Thermal Control for fan connectors

Dimensions and Weight

- Height: 3.5" (88.9 mm)
- Width: 17.2" (436.88 mm)
- Depth: 22.6" (574 mm)
- Gross Weight: 47.4 lbs (21.5 kg)
- Net Weight: 34.4 lbs (15.6 kg)
- Packaging: 9.7" (H) x 23.5" (W) x 36.9" (D)
- Available Color: Silver

Operating Environment

- Operating Temperature: 5°C to 35°C (41°F ~ 95°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 X13DEM

Chassis

- CSE-HE211-R000NFP

Ordering Information

- **AIGE-9008-Xeon2 (P/N: 86-SYS-SPMR-2)**
Enterprise AI server for K8S architecture/ Fog computing

* Note: This is an assembled product. The delivery content requires the purchase of additional CPU, Memory, hard drives, operating systems, and power cords. Please provide the required specifications to our sales for professional assistance.