

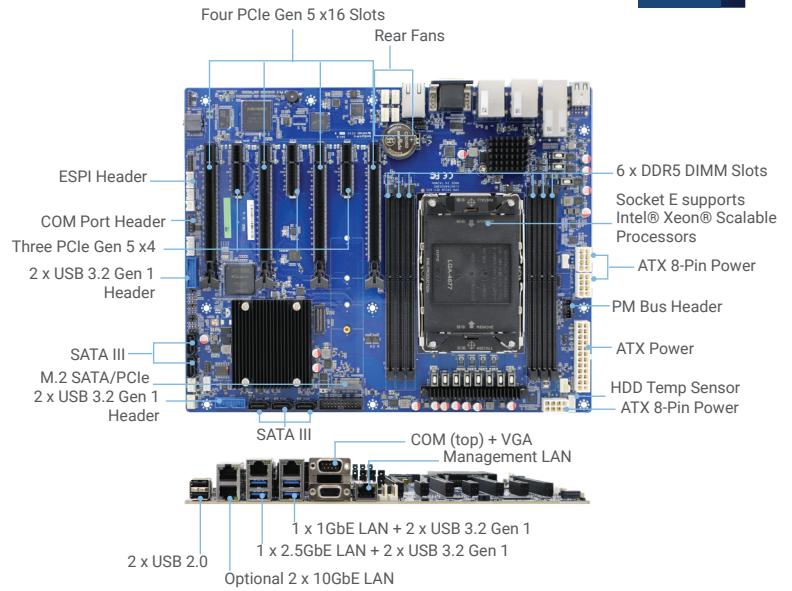
# HPM-ERSUAA / HPM-ERSUAL

ATX Server Motherboard supports Single 5th Gen Intel® Xeon® Scalable Processor up to 270W TDP



## Features

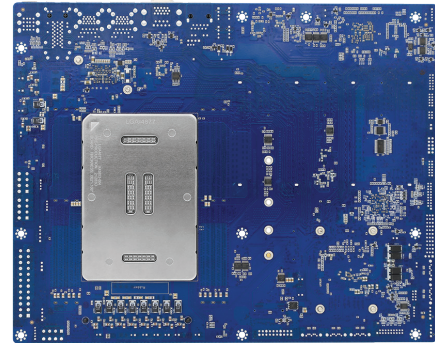
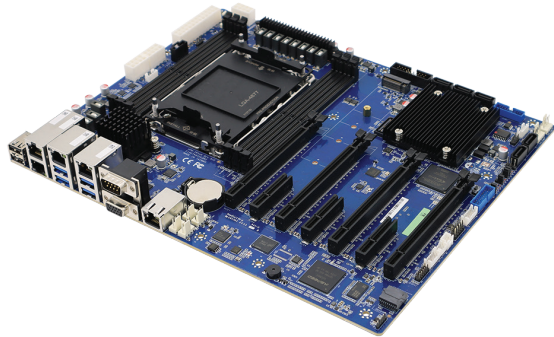
- Intel® LGA4677 socket supports 5th Gen Intel® Xeon Scalable Processor up to 270W TDP
- Intel® C741 Chipset
- 6 x DDR5 slots support 5600MHz RDIMM up to 1.5TB
- 4 x Gen5 PCIe x16 slots and 3 x Gen5 PCIe x4 slots
- TPM 2.0 onboard
- IPMI 2.0 supported by AST 2600 BMC controller onboard
- 1 x Intel® I210-AT 1GbE and 1 x Intel® I226-LM 2.5GbE Ethernet Controllers, 2 x RJ45 LAN ports
- Optional 1 x Intel® X550-AT2 10GbE Ethernet Controller supports 2 x RJ45 LAN ports, 10GbE each port
- 5 x SATA III (SATA 1~4 support RAID 0, 1, 5, 10)
- 4 x USB 3.2 Gen 1 port & 2 x USB 2.0 port at Edge I/O
- 4 x Internal USB 3.2 Gen 1 Ports
- 1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280/22110 Form Factor
- 1 x VGA, 1 x COM Port
- Dimension: 12" x 9.6" (304.8mm x 243.84mm)
- 2.54mm PCB Thickness
- HPM-ERSUAA: 4 x LAN Ports (1GbE + 2.5GbE + 2 x 10GbE)
- HPM-ERSUAL: 2 x LAN Ports (1GbE + 2.5GbE)



## Specifications

System	
CPU	Intel® LGA4677 socket supports single 5th Gen. Intel® Xeon® Scalable Processors up to 270W TDP
System Chipset	Intel® C741 Chipset
System Memory	6 x DDR5 slots support 5600MHz RDIMM up to 1.5TB
BIOS	AMI uEFI BIOS
IPMI	IPMI 2.0, supported by AST 2600 BMC Controller Onboard
Watchdog Timer	System Reset Event. 0 ~ 6553 seconds.
H/W Status Monitor	CPU temperature, fan speed and voltage monitoring, fan speed control, and case open detection
TPM	TPM 2.0
Supported OS	Windows 10 IoT Enterprise LTSC 2021 Windows 11 Windows Server 2019 Windows Server 2022 Ubuntu 21.1, 22.04 LTS and later Red Hat Enterprise Linux (RHEL) 8.2 and later
Expansion	
PCI Express	4 x PCIe Gen5 x16 Slots 3 x PCIe Gen5 x4 Slots
M.2	1 x M.2 M-Key supports SATA/PCIe 3.0 x4 NVMe SSD, 2242/2260/2280/22110 Form Factor
Display	
Chipset	AST2600 BMC controller
Interface	1 x VGA
Resolution	1920 x 1200 @ 60Hz 32bpp

Ethernet	
Chipset	* HPM-ERSUAA: (4 LAN Ports) 1 x Intel® I210-AT Ethernet Controller (1GbE) 1 x Intel® I226-LM Ethernet Controller (2.5GbE) 1 x Intel® X550-AT2 Ethernet Controller supports 2 x 10GbE LAN Ports
	* HPM-ERSUAL: (2 LAN Ports) 1 x Intel® I210-AT Ethernet Controller (1GbE) 1 x Intel® I226-LM Ethernet Controller (2.5GbE)
Interface	HPM-ERSUAA: 4 x RJ45 (1GbE + 2.5GbE + 2 x 10GbE) HPM-ERSUAL: 2 x RJ45 (1GbE + 2.5GbE)
External I/O	
USB	4 x USB 3.2 Gen 1 2 x USB 2.0
COM	1 x RS-232
VGA	1 x VGA
LAN	5 x RJ45 Connectors: 1 for BMC/IPMI Management LAN (MLAN), 4 for Ethernet The 1 x RJ45 Management LAN Port (MLAN) is for dedicated BMC/IPMI access only
	* HPM-ERSUAA: 4 x RJ45 + 1 x RJ45 MLAN * HPM-ERSUAL: 2 x RJ45 + 1 x RJ45 MLAN
Internal I/O	
USB	2 x USB 3.2 Gen 1 Headers (4 Ports)
COM	1 x RS-232
SATA	5 x SATA III supports up to 6.0 Gb/s SATA 1~4 support RAID 0, 1, 5, 10
CMOS Battery	1 x Horizontal Socket Type CMOS Battery Holder with CR2450



#### Power & Connector

Connector 1 x Standard 24-pin ATX Connector  
3 x 8-pin SSI 12V Connectors

#### Mechanical & Environment

Operating Temp.	Up to 250W TDP CPU: 0 ~ 55°C (32 ~ 131°F) Up to 270W TDP CPU: 0 ~ 45°C (32 ~ 113°F)
Storage Temp.	-40°C to 85°C (-40 ~ 185°F)
Op. Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimensions	12" x 9.6" (305 x 244mm). 2.54mm PCB Thickness
Form Factor	ATX
Weight	2.65lbs (1.19 kg)

#### Ordering Info

HPM-ERSUAA	Single socket supports 5th Gen Xeon® Scalable Processor. 4LAN - 1GbE + 2.5GbE + 2x10GbE
HPM-ERSUAL	Single socket supports 5th Gen Xeon® Scalable Processor. 2LAN - 1GbE + 2.5GbE
Accessory Included	1 x I/O Shield

\* All product specifications and images are subject to change without notice. Last update: 01/02/2024



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