

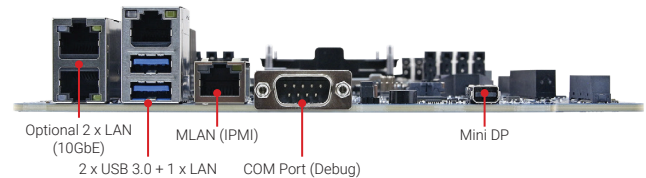
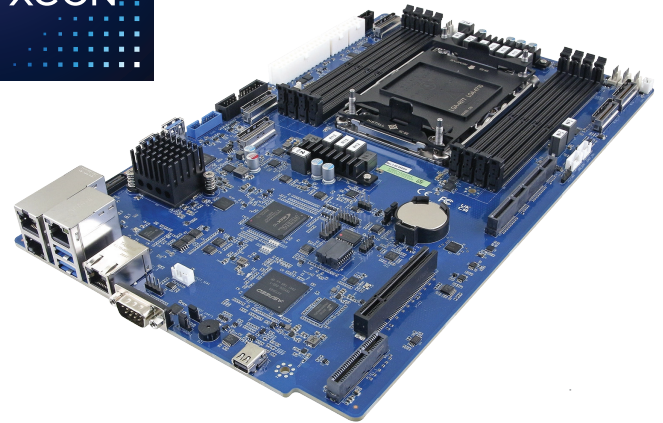
# HPM-GNR1U

High-performance motherboard for 1U Rackmount System



## Key Features

- Supports single 6th Gen Intel® Xeon® Scalable Processor up to 350W TDP LGA4710 Socket
- 8 x DDR5 6400MT/s RDIMM and 8000MT/s MRDIMM Up to 2TB
- IPMI 2.0, TPM 2.0
- 1 x PCIe Gen5 x32 Riser Slot, 1 x PCIe Gen5 x8 Riser Slot
- 5 x MCIO 8i Connectors with Hot-Swappable Support
- 1 x Mini-DisplayPort
- Optional Intel® Ethernet Controller E610-XAT2 (10GbE)

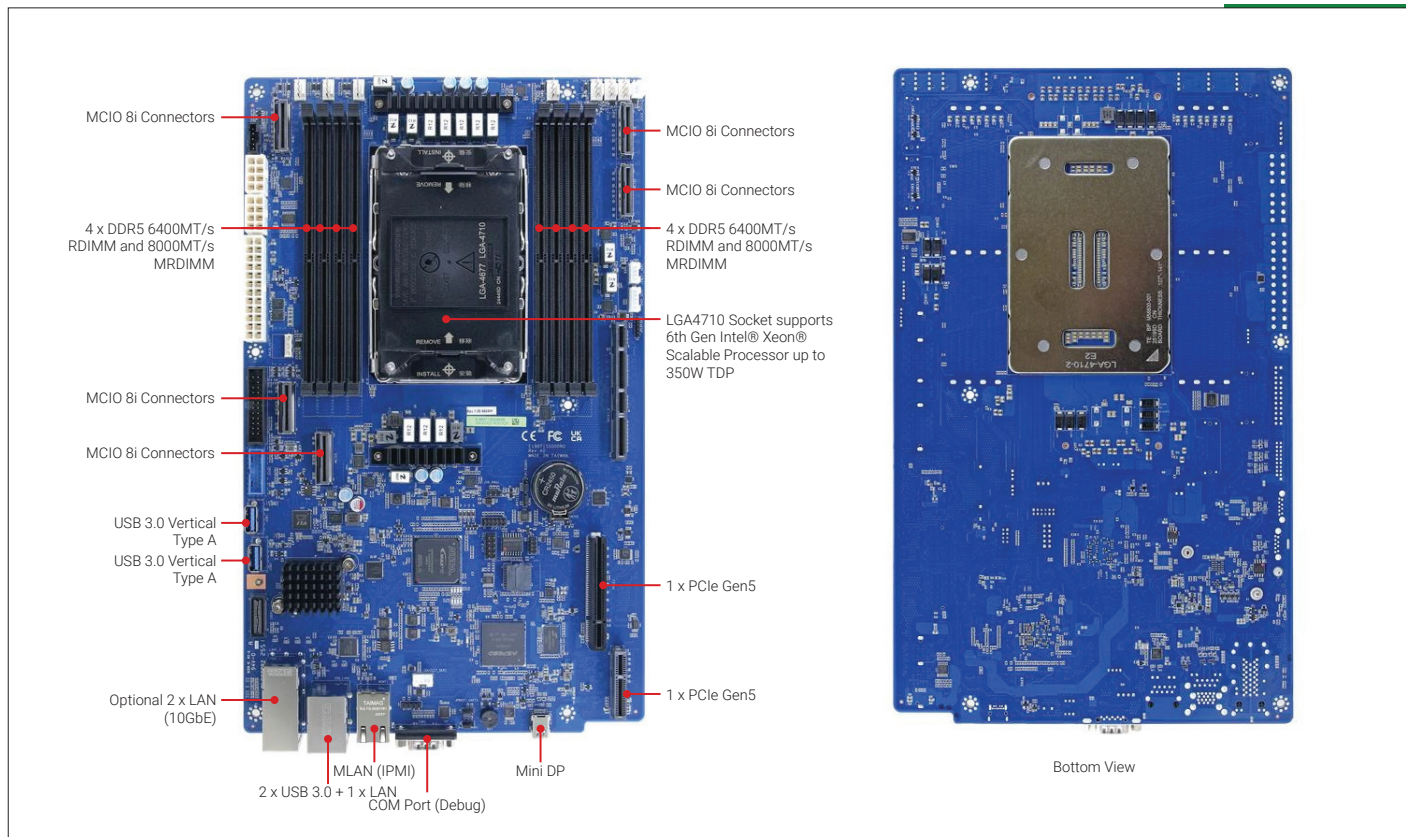


## Product Specifications

System	
Processor	Single 6th Gen Intel® Xeon® Scalable Processor up to 350W TDP LGA4710 Socket
Memory	8 x DDR5 6400MT/s RDIMM and 8000MT/s MRDIMM Up to 2TB
BIOS	AMI® UEFI BIOS
TPM	TPM 2.0
H/W Monitor	CPU Temperature Fan Speed and Voltage Monitoring Fan Speed Control Case Open Detection
Watchdog Timer	System Reset Event. 0 ~ 6553 seconds.
IPMI/Graphics	
Controller	AST2600 Series BMC Controller
Interface	1 x Mini-DisplayPort 1
Resolution	920x1200@60Hz 32bpp
IPMI	IPMI 2.0
Ethernet	
Controller	1 x Intel® I210-AT Ethernet Controller (1GbE) (Shared IPMI management port)  Optional 1 x Intel® X550-AT2 Ethernet Controller supports 2-Ports (10GbE each LAN port)
Interface	2 x RJ-45 Optional 2 x RJ-45
Expansion Interfaces	
PCI Express	1 x PCIe Gen5 x32 Riser Slot 1 x PCIe Gen5 x8 Riser Slot
MCIO	5 x MCIO 8i Connectors with Hot-Swappable Support (PCIe Gen5)

Supported OS	
Windows	Windows 10 IoT Enterprise LTSC 2021. Windows 11 Windows Server IoT 2019 with VT-d disabled. Windows Server IoT 2022.
Linux	Red Hat Enterprise Linux (RHEL) 8.2 and later
External I/O Ports	
Display	1 x Mini-DisplayPort Connector
USB	2 x USB 3.0 Type A Connector
LAN	1 x RJ-45 1GbE Ethernet Connector Shared with IPMI 1 x RJ-45 Connector for Console Optional 2 x RJ-45 Connectors for 10GbE
Internal I/O Connectors	
VROC	1 x Intel VROC Header
USB	2 x USB 3.0 Vertical Type A Connectors 1 x USB 3.0 Header (2 Ports)
Fan	1 x 4 Pin CPU Fan Header (4 pin PWM) 6 x 4 Pin PWM Chassis Fan Headers
Front Panel	1 x Front Panel Connector
Buzzer	1 x Onboard Buzzer
Clear CMOS	1 x Clear CMOS Header (2.0mm pitch Header)
CMOS Battery	1 x Horizontal Socket Type CMOS Battery Holder with CR2450
Temperature Sensor	1 x Inlet Sensor Onboard 1 x Outlet Sensor Onboard 1 x Inlet Sensor Header 1 x Outlet Sensor Header

## Product Photo



Mechanical, Power, and Environment	
Power & Connector	1 x Std. 24 Pin ATX Controller 2 x 8 Pin SSI 12V Connector BMC: AT(Default)
Operating Temp	0 °C to 60 °C (32°F ~ 140°F) (without Intel E610-XAT2) 0 °C to 55 °C (32°F ~ 131°F) (with Intel E610-XAT2)
Storage Temp	-40°C ~ 85°C (-40°F ~ 185°F)
Storage Humidity	40°C 95% non-condensing
Dimensions	8" x 13" (TBD)
Form Factor	Proprietary
Weight	TBD
Regulatory Compliance Design to Comply	
EMC Certification	2014/30/EU EMC EN55032+55035 Class B
EMI Certification	FCC part 15B Federal Communication Commission Class B UKCA (United Kingdom EMI requirement)
Safety Certification	2014/35/EU LVD EN 62368-1 Low Voltage Directive CE

## Ordering Information

Part No.	Description
HPM-GNR1U	LGA 4710 supports single Intel® 6th Gen. Xeon® Scalable Processors. 16 x DDR5 up to 4TB, 1 x Gbit LAN, 1 x 2.5Gbit LAN, 5 x PCIe 5.0x16, 1 x PCIe 5.0x8, 4 x USB 3.2, 5 x SATA III, EATX, 2 x 10Gbit Ethernet ports
AUX-HPS-FH-A0R	Full Height Full Length 1U PCIe x32 Dual PCIe x16 Slot Riser Card
AUX-HPS-LP-A0R	Half Height Half Length 1U PCIe x8 Riser Card in x16 Physical Slot with MCI0 8i



## BCM ADVANCED RESEARCH

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