RACKMOUNT BAREBONE

HPS-GNR1U

1U Rackmount Barebone HPC with Up to
3 PCI Express Expansion Slots

Key Features

- Motherboard inside: HPM-GNR1U
- 1U 19” Rackmount Chassis
- Supports 6th Gen Intel® Xeon® Scalable Processor up to 350W TDP
- 8 x DDR5 6400MT/s RDIMM and 8000MT/s MRDIMM Up to 2TB
- Intel® VROC RAID 0/1/5/10 with Optionall VROC Key
- 2 x PCIe Gen5 x16 FHFL Single Width Slot or 1 x PCIe Gen5 x16 FHFL Double Width Slot
- 1 x PCIe Gen5 x8 HHHL Slot (x16 Physical Slot)
- 4 LAN ports: MLAN, 1x 1GbE, 2 x 10GbE
- 2 x LAN by Intel® Ethernet Controller E610-XAT2
- IPMI 2.0
- 1 x MiniDP, 2 x USB 3.2 Gen1 (Front), 2 x USB 3.2 Gen1 (Rear)
- Drive Bay Options: 4 Hot-Swappable 2.5” U.2/U.3 drive bays, or 10 x Hot-Swappable E1.S NVMe Drive Bays



Product Specifications

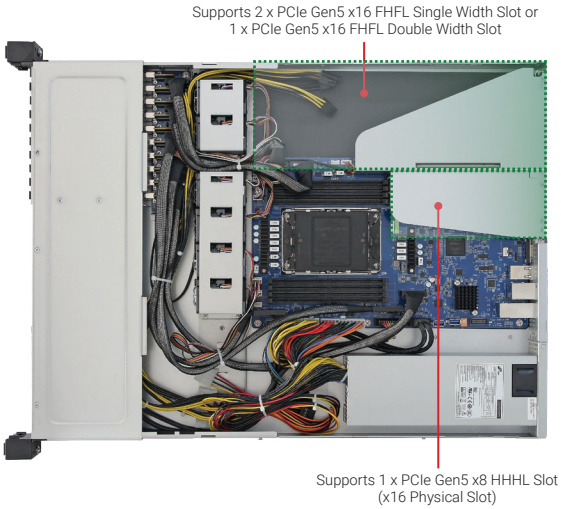
System	
Motherboard	HPM-GNR1U
CPU	1 x LGA4710 socket supports 6th Gen Intel® Xeon® 6500P/6700P/6700E series Processor, up to 350W TDP
System Memory	8 x DDR5 6400 MHz RDIMM & 8000 MHz MRDIMM Up to 2TB
Supported OS	Windows 11 SAC and LTSC Windows Server 2025 Ubuntu 24.04 LTS or later Red Hat Enterprise Linux (RHEL)
External I/O (Front)	
USB	2 x USB 3.2 Gen1 ports
Power Button	1 x Momentary Power Switch
Reset Button	1 x Reset Button
LED Indicator	1 x Power LED, 1 x Status LED TBD, 2 x LAN LED (1 for I210-AT, 1 for E610-XAT2) 1 x Power Status LED
External I/O (Rear)	
Display	1 x MiniDP Connector
USB	2 x USB 3.2 Gen1 ports
IPMI	1 x RJ-45 Connector for IPMI
LAN	4 x RJ45 includes: 1 x RJ-45 for Intel® Ethernet Controller I210-AT GbE LAN (Shared with IPMI). 1 x RJ-45 MLAN for dedicated IPMI access only. 2 x RJ-45 for Intel® Ethernet Controller E610-XAT2 10GbE LAN.
COM Port	1 x COM Port
Expansion and Storage Interfaces	
PCI Express	2 x PCIe Gen5 x16 FHFL Single Width Slot, or 1 x PCIe Gen5 x16 FHFL Double Width Slot, via riser card. 1 x PCIe Gen5 x8 HHHL Slot (In x16 Physical Slot), via riser card.

Storage	
M.2	2 x 2280 M.2 NVMe (Optional Through Daughter Board)
Drive Bay	10 x Hot-Swappable E1.S NVMe Drive Bays, or 4 x Hot-Swappable 2.5” U.2 NVMe Drive Bays
Power Supply Requirement	
Power Supply	850W 1U Single PSU (Default), or 850W Redundant PSU.
Voltage	100VAC to 240VAC
Regulatory Compliance	
Design to Comply with	CE/FCC
Mechanical and Environment	
Operating Temp.	0 ~ 40°C (L6 system with 850W Single PSU) with Air shroud
Storage Temp.	-40°C 24hrs IEC60068-2-1 Cold test Test: Ab 70°C/ RH95% 24hrs IEC 60068-2-3 Test: Ca
OP Humidity	35°C @95% Relative Humidity, Non-condensing
Form Factor	1U 19” Rackmount Chassis
Chassis Fan	6 x 40x56mm PWM FAN
Dimensions	19”W x 24.65”D x 1.75”H (System only) 23.62”W x 32.28”D x 7.50”H (Packaging)
Weight	approx. 22lbs

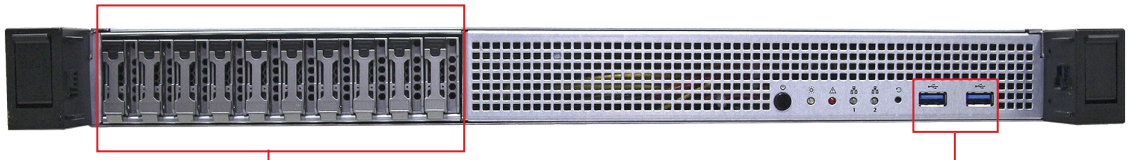
* All product specifications and images are subject to change without notice. Last update: 06/11/2026

Product Photo

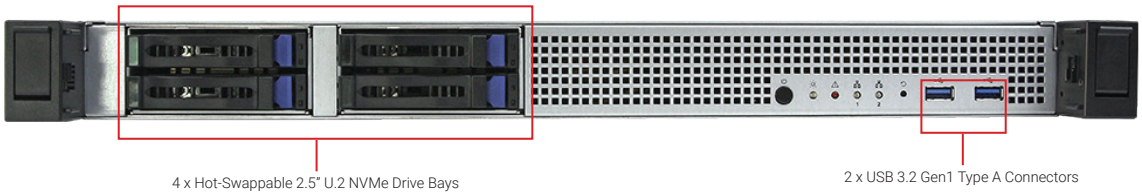




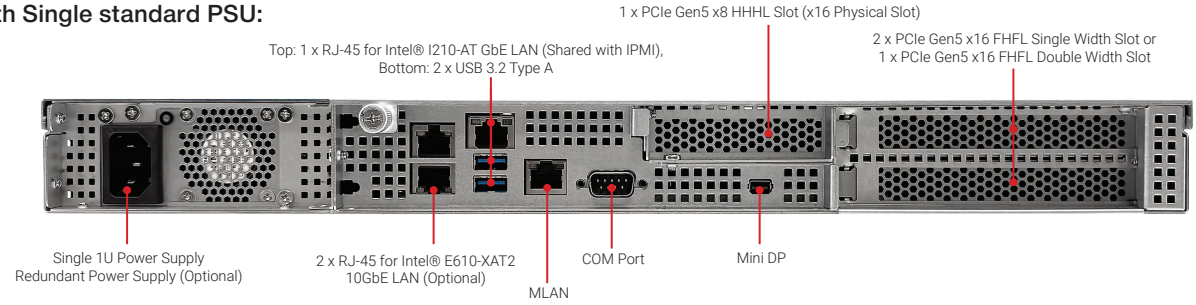
Front I/O - with 10 x E1.S Drive Bay:



Front I/O - with 4 x 2.5” U.2 NVMe Drive Bay:



Rear I/O - with Single standard PSU:



Ordering Information

Part No.	Description
	All SKU includes1U Rackmount barebone with HPM-GNR1U motherboard inside plus the following:
HPS-GNR1UES	10 x E1.S Drive Bay Support Hotswap. 850W Single PSU.
HPS-GNR1UUS	4 x U.2 Drive Bay Support Hotswap, 2 x M.2 NVMe.850W Single PSU.
HPS-GNR1UER	10 x E1.S Drive Bay Support Hotswap. 850W Redundant PSU.
HPS-GNR1UUR	4 x U.2 Drive Bay Support Hotswap, 2 x M.2 NVMe. 850W Redundant PSU.

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