

HPS-GNRD4A

Dual Intel® Xeon® 6 Processors, 1300W, 5 x RJ-45,
IPMI2.0 Workstation



Features

- 19" 4U Chassis
- 430mm (W) x 174.8mm (H) x 650mm (D)
- 1 x 1300W PS2 ATX PSU or 1 x 1600W CRPS
- 3 x Front accessible 2.5" storage bays
- Dual Intel LGA4710 Sockets support Intel® Xeon® 6 6500P & 6700P series Processor (Max. TDP at 350W each)
- 16 x DDR5 6400 MHz RDIMM & 8000 MHz MRDIMM up to 4TB
- IPMI 2.0 with AST 2600 BMC controller onboard
- 2 x Intel I210AT 1GbE controllers
- 1 x Intel E610-XAT2 10GbE controller supports 2 x 10GbE Ethernet ports



Intel®Xeon® 6
Processors



16 x DDR5
RDIMM
6400MHz



IPMI 2.0
Supported



10GbE



PCIe Gen5
Multiple
Expansion

Specifications

System Information

Processor	Dual Intel LGA4710 Sockets support Intel® Xeon® 6 6500P & 6700P series Processor (Max. TDP at 350W each)
System Memory	16 x DDR5 6400 MHz RDIMM & 8000 MHz MRDIMM Up to 4TB
BIOS	AMI UEFI BIOS
Watchdog Timer	System reset event 0 ~ 6553 seconds
H/W Status Monitor	CPU temperature Fan speed and voltage monitoring Fan speed control Case open detection
TPM	TPM 2.0 onboard
IPMI	IPMI 2.0 with AST 2600 BMC controller onboard
SBC	HPM-GNRDE

Front I/O

USB	2 x USB 3.2 Gen1 ports
Power Button	1 x Power button
Reset Button	1 x Reset button
LED Indicator	1 x Power status indicator 1 x Disk activity indicator 1 x Network activity indicator

Rear I/O

USB	6 x USB 3.2 Gen2 ports
COM Port	1 x RS232 port
VGA	1 x VGA port
RJ-45	5 x RJ45 MGMT port for dedicated IPMI access only LAN1 port for 1GbE shared with IPMI access LAN2 port for 1GbE LAN3 and 4 ports for 10GbE

Display

Graphic Chipset	AST 2600 BMC controller
Resolution	1 x VGA port VGA: 1920 x 1200 @ 60Hz 32bpp

Power Requirement

Power Supply Unit	1 x 1300W PS2 ATX PSU (Default) 1 x 1600W CRPS (Option)
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Expansion

Expansion	5 x PCIe Gen5 x16 slots & 1 x PCIe Gen5 x8 slot Slot 1, PCIe 5.0 x16 from 1st CPU Slot 2, PCIe 5.0 x16 from 2nd CPU Slot 3, PCIe 5.0 x16 from 2nd CPU Slot 4, PCIe 5.0 x16 from 2nd CPU Slot 5, PCIe 5.0 x16 from 2nd CPU Slot 6, PCIe 5.0 x8 from 1st CPU (Slot 7 is the slot closest to CPU)
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Storage

M.2	1 x M.2 M-Key slots to support 1 x PCIe 5.0 x4 NVMe SSD from 1st CPU 2242/2260/2280/22110 form factor 1 x M.2 M-Key slots to support 1 x PCIe 5.0 x4 NVMe SSD from 1st CPU 2242/2260/2280 form factor
2.5 Drive Bay	3 x Front accessible 2.5" storage bays

Ethernet

LAN Chipset	1 x Intel I210AT GbE Ethernet port shared with IPMI management port 1 x Intel I210AT 1GbE controller 1 x Intel E610-XAT2 10GbE controller supports 2 x 10GbE Ethernet ports
LAN Port	5 x RJ45 MGMT port for dedicated IPMI access only LAN1 port for 1GbE shares with IPMI access LAN2 port for 2.5GbE LAN3 and 4 ports for 10GbE

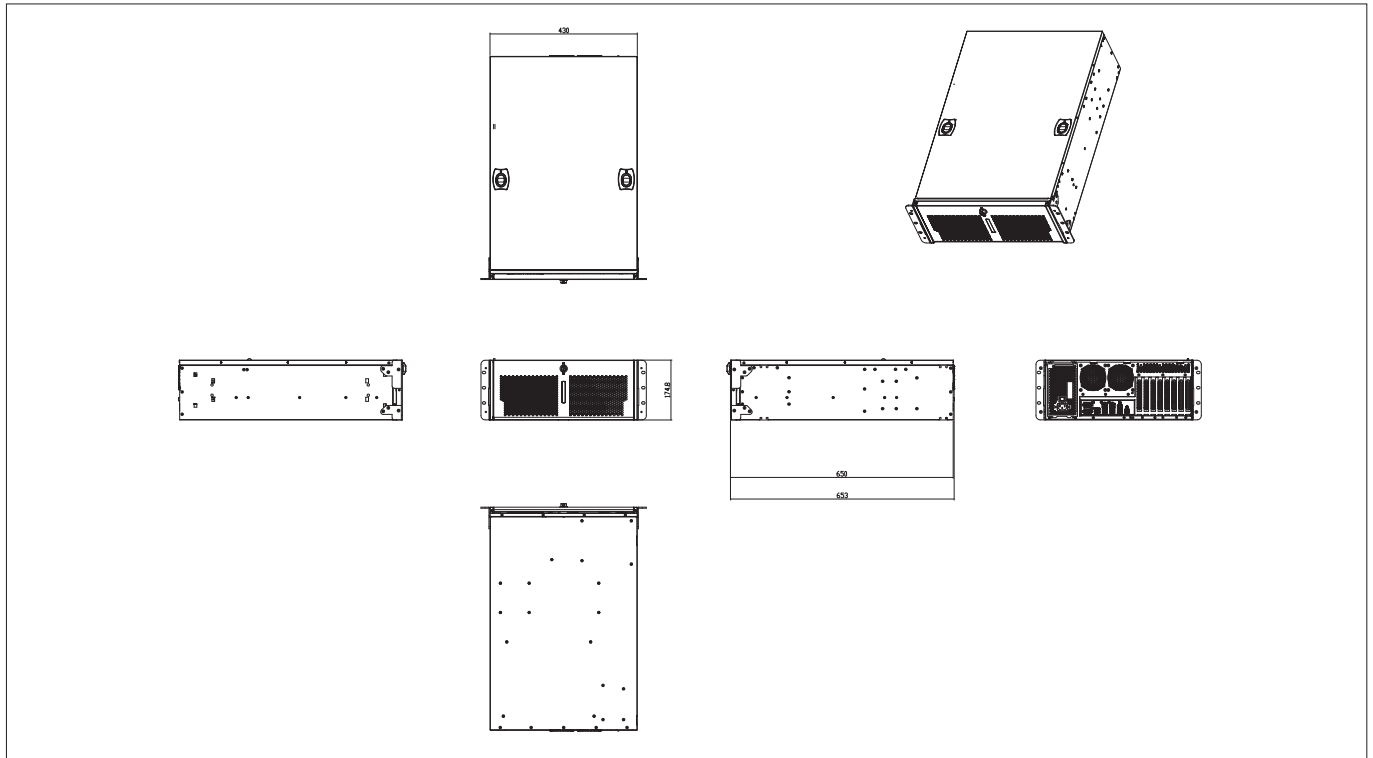
Mechanical & Environmental

Operating Temp.	0 ~ 35°C (L6 system with 1300W ATX PSU) 0 ~ 40°C (L6 system with 1600W CRPS)
Storage Temp.	-40°C 24hrs IEC60068-2-1 Cold test Test: Ab 70°C/ RH95% 24hrs IEC 60068-2-3 Test: Ca
Operating Humidity	35°C @95% Relative Humidity, Non-condensing
Weight	25.8KG
Dimension (W x L x D)	19" 4U Chassis 430mm (W) x 174.8mm (H) x 650mm (D) 482.6mm (W) x 174.8mm (H) x 650mm (D) with ear mount

Software Support

OS	Windows 11 SAC and LTSC Windows Server 2025 Ubuntu 24.04 LTS or later Red Hat Enterprise Linux (RHEL)
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Mechanical Drawing



Ordering Information

Model Name	P/N	CPU	Chipset	Memory	PCIe Slot	10GbE/2.5GbE/1GbE	USB 3.2 Gen2/USB 3.2 Gen1/USB 2.0	2.5" Drive Bay	PSU
HPS-GNRD4A	HPS-GNRD4AD-A1R	2	NA	16	6	2/0/2	6/2/0	3	1300W PS2 ATX
HPS-GNRD4A	HPS-GNRD4AU-A1R	2	NA	16	6	2/0/2	6/2/0	3	1600 CRPS

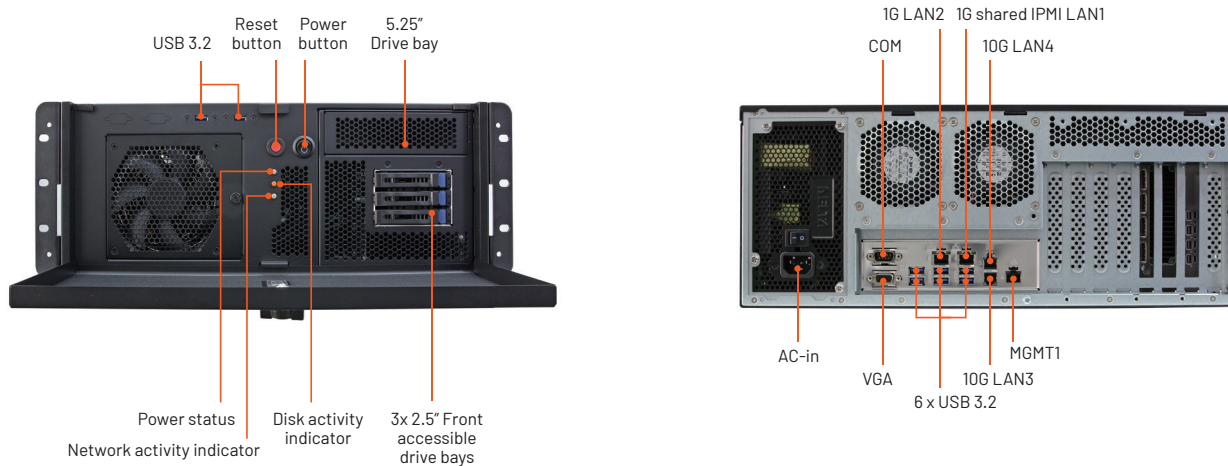
Packing List

Item	P/N	Quantity
L6 19" 4U Rackmount w/HPM-GNRDEA/1300W	HPS-GNRD4AD-A1R	1
LGA4710 CPU carrier-E2B	E199TR00082R	2

Optional Items

Item	P/N
CPU Cooler for LGA4677 4U 4500RPM 350W	BCC-FAN-467-01R
US Power Cord 1.8M	E170P060390R
EU Power Cord 1.8M	E1702031000R
UK Power Cord 1.8M	E170P060380R
JP Power Cord 1.8M	E170P060410R

I/O Overview



CPU Support List (HPC Only)

SKU	Launch Date	# of Cores	# of Threads	Processor Base Frequency	Max Turbo Frequency	TDP (W)
Intel® Xeon® 6740P	Q1,25	48	96	2.1 GHz	3.8 GHz	270
Intel® Xeon® 6781P (Only HPM-GNRUA use)	Q1,25	80	160	2.0 GHz	3.8 GHz	350
Intel® Xeon® 6530P	Q1,25	32	64	2.3 GHz	4.1 GHz	225
Intel® Xeon® 6520P	Q1,25	24	48	2.4 GHz	4.0 GHz	210
Intel® Xeon® 6731P (Only HPM-GNRUA use)	Q1,25	32	64	2.5 GHz	4.1 GHz	245
Intel® Xeon® 6521P (Only HPM-GNRUA use)	Q1,25	24	48	2.6 GHz	4.1 GHz	225
Intel® Xeon® 6736P	Q1,25	36	72	2.0 GHz	4.1 GHz	205
Intel® Xeon® 6517P	Q1,25	16	32	3.2 GHz	4.2 GHz	190
Intel® Xeon® 6515P	Q1,25	16	32	2.3 GHz	3.8 GHz	150
Intel® Xeon® 6505P	Q1,25	12	24	2.2 GHz	4.1 GHz	150