HPS-GNRU4A

19" 4U Rackmount Workstation with HPM-GNRUA Server Grade Motherboard inside

Key Features

- Extended Lifecycle Server-grade Workstation
- Lockable Front Cover
- 19" 4U Chassis, L6 Barebone
- 1 x LGA4710 sockets supports 6th Gen Intel® Xeon® 6500P or 6700P series Processor (formerly Granite Rapids) up to 350W TDP
- 8 x DIMM slots support DDR5 6400MT/s RDIMM and 8000MT/s MRDIMM up to 2TB
- 4 x PCIe Gen5 x16
- Intel VMD and VROC (PCIe NVMe only, requires RAID key)
- IPMI 2.0 with AST 2600 BMC controller onboard
- 1 x Intel® Ethernet Controller E610-XAT2 (2 x 10GbE)
- 1 x Slim SAS 4i Connector, 1 x Mini-SAS HD 4i Connector
- L10 Fully Integrated (CPU, memory, storage) System available through OEM/ODM
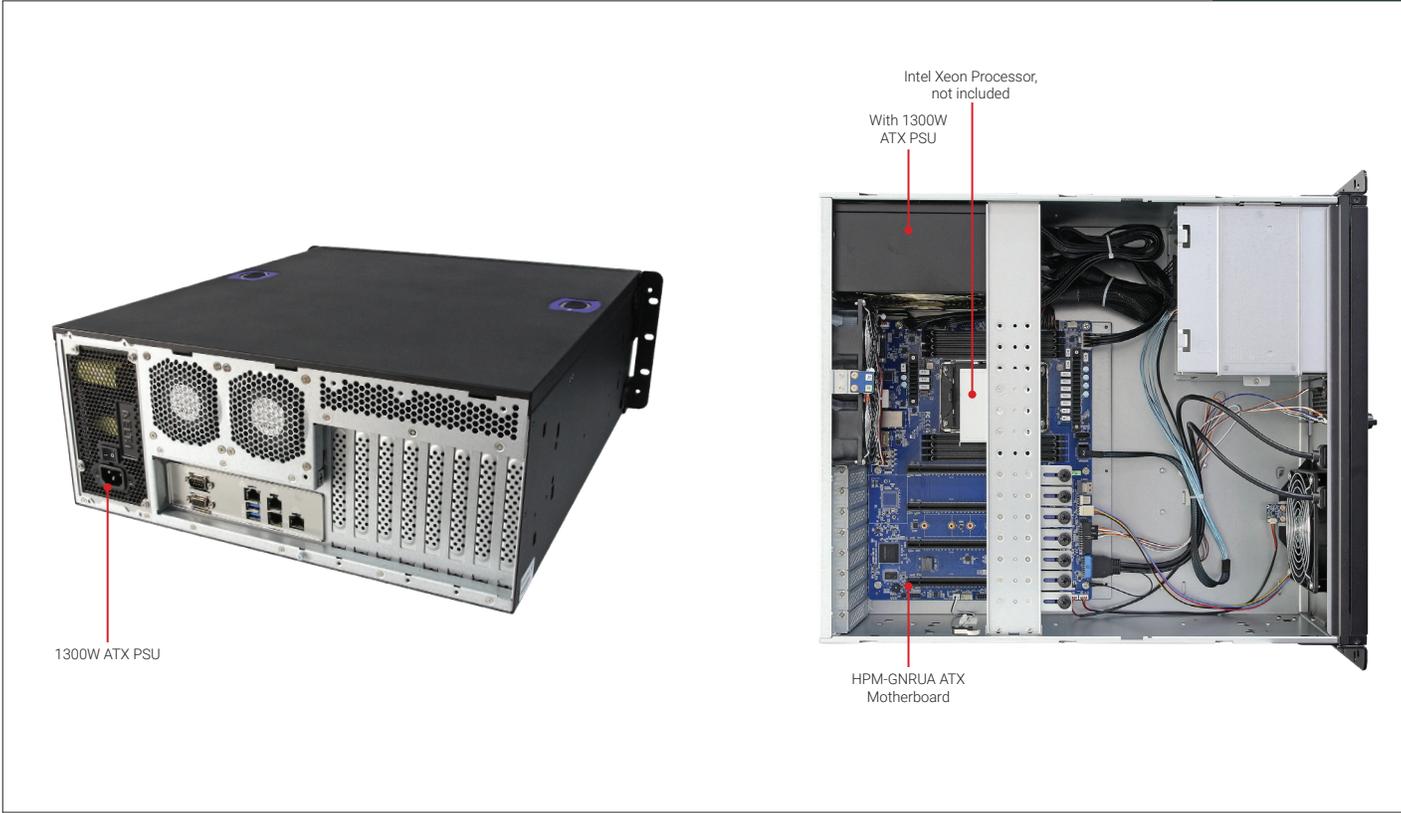
Product Specifications

System

Motherboard Inside	HPM-GNRUA
CPU	1 x LGA4710 Socket supports 6th Gen Intel® Xeon® 6500P or 6700P series scalable processors up to 350W TDP
System Chipset	Intel® C741 Chipset
System Memory	8 x DIMM slots support DDR5 6400MT/s RDIMM and 8000MT/s MRDIMM up to 2TB
BMC/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 Case open detection
TPM	Onboard TPM 2.0
RAID	Intel VMD and VROC (PCIe NVMe only, requires RAID key)
System Fan	1 x front fan, 120×120×25 mm, 12V, 4-pin, 2200 RPM, 30 cm cable 2 x rear PWM fans, 80×80×38 mm, 12V, 4-pin, 8300 RPM, 18 cm cable
Supported OS	Windows 11 SAC and LTSC Windows Server 2025 Ubuntu 24.04 Red Hat Enterprise Linux (RHEL) 8.0 or above

Ethernet

Controller	1 x Intel® Ethernet Controller I210-AT (1 x 1GbE) 1 x Intel® Ethernet Controller E610-XAT2 (2 x 10GbE)
LAN Interface	4 x RJ-45

Display

Chipset	AST 2600 BMC Controller
Resolution	VGA: 1920 x 1200 @ 60Hz 32bpp

Expansion Slots

PCI Express	4 x PCIe Gen5 x16 Slots

Storage

M.2	2 x M.2 M-Key sockets support 1 x PCIe Gen5 x4 NVMe SSD 2242/2260/2280/22110 form factor
Drive Bay	3 x Front Accessible 2.5" Drive Bay
Other	1 x Slim SAS 4i connector (SFF-8654) 1 x Mini SAS-HD 4i connector (SFF-TA-1016) Display

External I/O (Front)

USB	2 x USB 3.2 Gen 1 Port
Power Button	1 x Power Switch
Reset Button	1 x Reset Button
LED Indicator	1 x Power status indicator 1 x Disk activity indicator 1 x Network activity indicator

External I/O (Rear)

Display	1 x VGA Port
USB	2 x USB 3.2 Gen1 ports
COM Port	1 x RS232 Port
LAN	4 x RJ-45 LAN Ports: 1 x RJ-45 for Dedicated IPMI management port 1 x RJ-45 (1GbE) 2 x RJ-45 (10GbE)
AC Input	1 x AC-in (1300W ATX, default), 2 x AC-in (1600W CRPS, optional)

Product Photo

1300W ATX PSU

Intel Xeon Processor,
not included

With 1300W
ATX PSU

HPM-GNRUA ATX
Motherboard

Internal I/O	
VROC	1 x Intel® VROC Header
USB	4 x USB 3.1 Gen2 1 x USB Hub to 4 x USB
COM	1 x RS-232 Header
Fan	2 x 4-Pin CPU Fan Headers, 6 x 4-Pin Chassis Fan Headers
Front Panel	1 x Front Panel Header
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, 1 x Outlet Sensor, 1 x Inlet Sensor Header, 1 x Outlet Sensor Header

Power Requirement	
Power & Connector	1 x Std. 24 pin ATX Controller 5 x 8-Pin SSI 12V Connector ATX Mode ACPI Support (S0 and S5)
Power Supply Unit	Delta 1300W ATX PSU (Default) Zippy 1600W CRPS PSU (Optional)

Regulatory Compliance	
Certification	CE/FCC

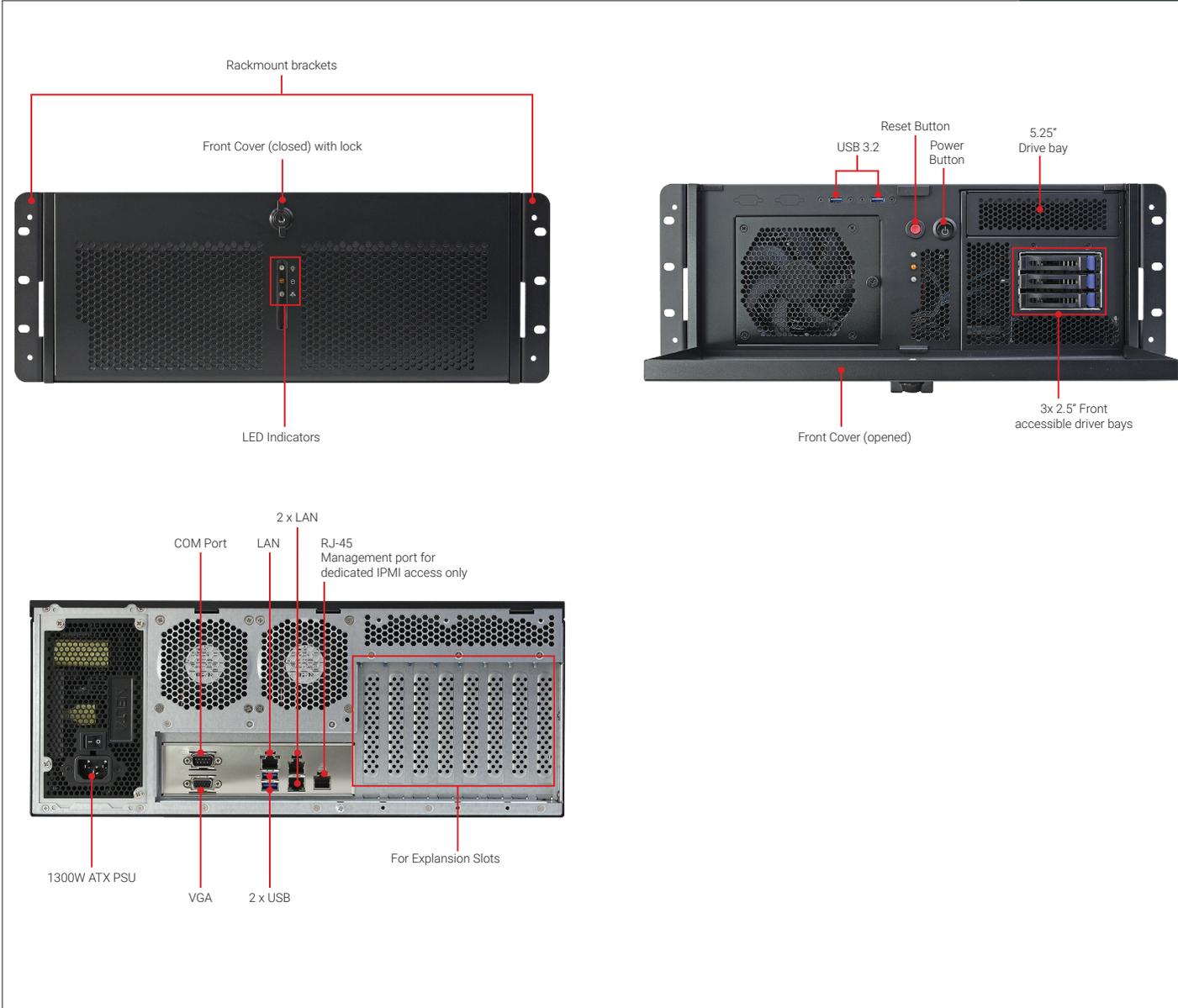| Mechanical, Power, and Environment	
Operating Temperature	L6 Barebone: 0 ~ 35°C (32°F ~ 95°F)
Storage Temperature	-40°C 24hrs IEC60068-2-1 Cold test Test: Ab 70°C/ RH95% 24hrs IEC 60068-2-3 Test: Ca
Operating Humidity	35°C @95% Relative Humidity, Non-condensing
Dimensions	19" 4U Chassis 16.93" x 6.88" x 20.79" / 430mm(W) x 174.8mm(H) x 528mm(D) 19" x 6.88" x 20.79" (with ear mount) /482.6mm(W) x 174.8mm(H) x 528mm(D)
Weight	42.99 lbs (19.5KG)

Block Diagram / Dimension (Unit: mm)

Rackmount brackets

Front Cover (closed) with lock

Reset Button

USB 3.2

Power Button

5.25"
Drive bay

LED Indicators

3x 2.5" Front
accessible driver bays

Front Cover (opened)

2 x LAN

COM Port   LAN   RJ-45
Management port for
dedicated IPMI access only

For Explansion Slots

1300W ATX PSU

VGA   2 x USB

Ordering Information

Part No.	Description
HPS-GNRU4A-A1R	Barebone Only. L6 19" 4U Rackmount HPC System. Please contact BCMSales@bcmcom.com for more information.

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