

# HPS-ERSU4A

Single 4th/5th Generation Intel® Xeon® Scalable Processor with Intel® C741 Chipset, 1300W, 5x RJ-45, IPMI2.0 Workstation



## Features

- 19" 4U Chassis
- 430mm (W) x 174.8mm (H) x 528mm (D)
- 1 x 1300W PS2 ATX PSU
- 3 x Front accessible 2.5" storage bays
- Intel LGA4677 Socket supports 4th/5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)
- Intel® C741 Chipset
- 6 x DDR5 5600 MHz RDIMM up to 1.5TB
- IPMI 2.0 with AST 2600 BMC controller onboard
- 1 x Intel I210AT 1GbE controller
- 1 x Intel I226-LM 2.5GbE controller
- 1 x Intel X550AT2 10GbE controller supports 2 x 10GbE Ethernet ports



4th/5th Gen. Intel® Xeon® Scalable Processor



6 x DDR5 RDIMM 5600MHz



IPMI 2.0 Supported



10GbE



PCIe Gen5 Multiple Expansion

## Specifications

### System Information

<b>Processor</b>	Intel LGA4677 Socket supports 4th/5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)
<b>Platform Controller Hub</b>	Intel® C741 Chipset
<b>System Memory</b>	6 x DDR5 5600 MHz RDIMM up to 1.5TB
<b>BIOS</b>	AMI UEFI BIOS
<b>Watchdog Timer</b>	System reset event 0 ~ 6553 seconds
<b>H/W Status Monitor</b>	CPU temperature Fan speed and voltage monitoring Fan speed control Case open detection
<b>TPM</b>	TPM 2.0 onboard
<b>IPMI</b>	IPMI 2.0 with AST 2600 BMC controller onboard
<b>SBC</b>	HPM-ERSUA

### Front I/O

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

### Rear I/O

<b>USB</b>	4 x USB 3.2 Gen1 ports 2 x USB 2.0 type A ports
<b>COM Port</b>	1 x RS232 port
<b>VGA</b>	1 x VGA port
<b>RJ-45</b>	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

### Display

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

### Power Requirement

<b>Power Supply Unit</b>	1 x 1300W PS2 ATX PSU
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### Expansion

<b>Expansion</b>	4 x PCIe Gen5 x16 slots and 3 x PCIe Gen5 x4 slots Slot 1, PCIe 5.0 x16 Slot 2, PCIe 5.0 x4 Slot 3, PCIe 5.0 x16 Slot 4, PCIe 5.0 x4 Slot 5, PCIe 5.0 x16 Slot 6, PCIe 5.0 x4 Slot 7, PCIe 5.0 x16 (Slot 7 is the slot closest to CPU)
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### Storage

<b>M.2</b>	1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280/22110 form factor
<b>2.5 Drive Bay</b>	3 x Front accessible 2.5" storage bays

### Ethernet

<b>LAN Chipset</b>	1 x Intel I210AT 1GbE controller 1 x Intel I226-LM 2.5GbE controller 1 x Intel X550AT2 10GbE controller supports 2 x 10GbE Ethernet ports
<b>LAN Port</b>	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

<b>Operating Temp.</b>	0 ~ 35°C (L6 system)
<b>Storage Temp.</b>	-40°C 24hrs IEC60068-2-1 Cold test Test: Ab 70°C/ RH95% 24hrs IEC 60068-2-3 Test: Ca
<b>Operating Humidity</b>	35°C @ 95% Relative Humidity, Non-condensing
<b>Weight</b>	19.5KG
<b>Dimension (W x L x D)</b>	19" 4U Chassis 430mm(W) x 174.8mm(H) x 528mm(D) 482.6mm(W) x 174.8mm(H) x 528mm(D) with ear mount

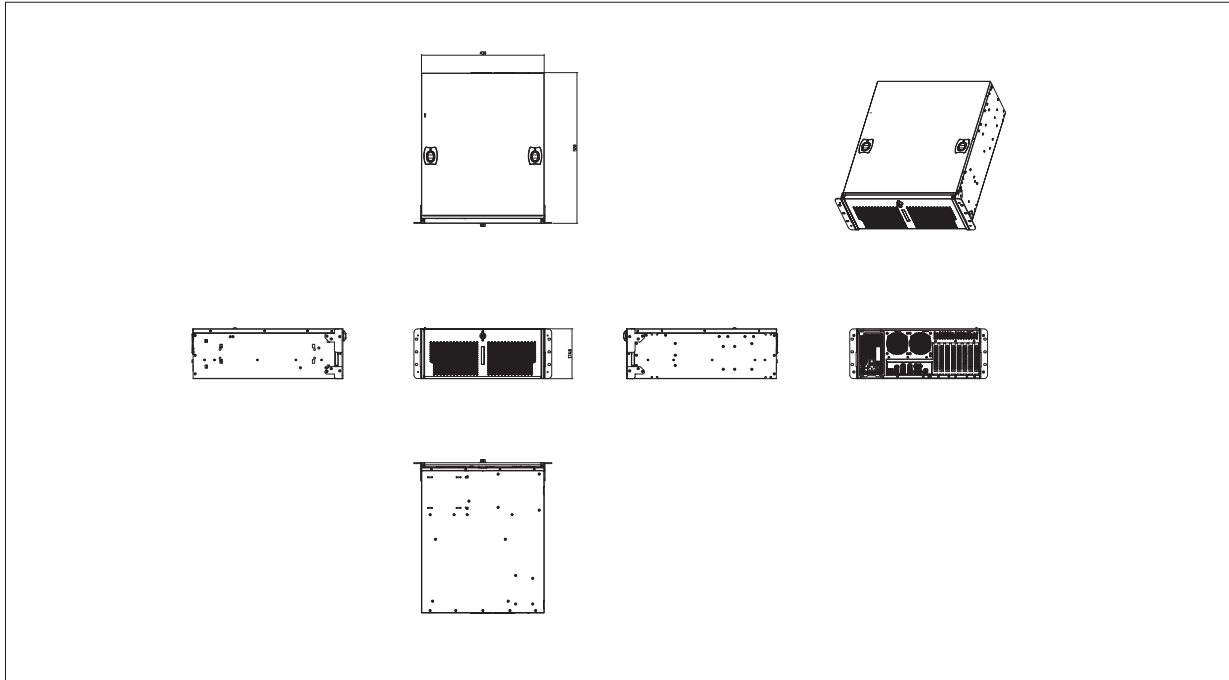
### Software Support

<b>OS</b>	Windows 10 IoT Enterprise LTSC 2021 Windows 11 Windows Server 2019 Windows Server 2022 Ubuntu 21.10, 22.04 LTS or later Red Hat Enterprise Linux (RHEL) 8.2 and later
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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-ERSU4A	HPS-ERSU4AD-A1R	1	C741	6	7	2/1/1	0/6/2	3	1300W PS2 ATX

## Packing List

Item	P/N	Quantity
L6 19" 4U Rackmount w/HPM-ERSUAA/1300W	HPS-ERSU4AD-A1R	1
LGA4677 CPU carrier-E1B	E199TR00063R	1

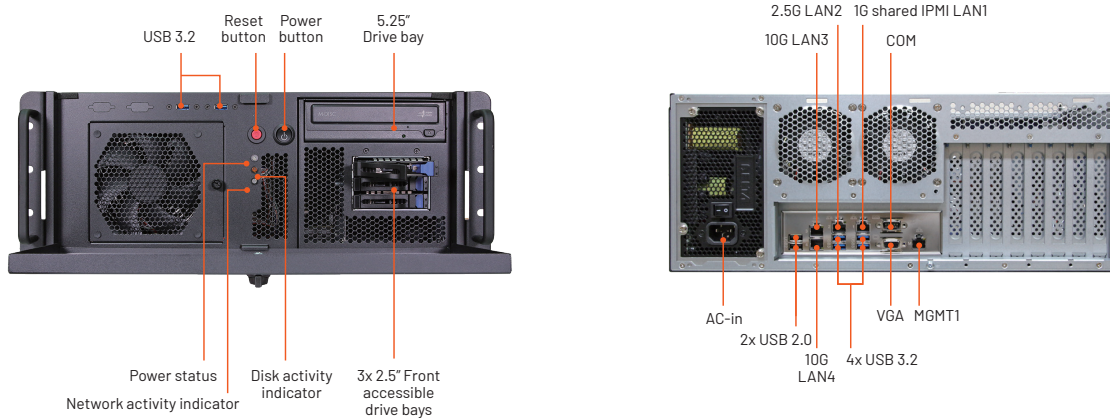
## Optional Items

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

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## 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® Gold 6548Y+	04,23	32	64	2.5 GHz	4.1 GHz	250
Intel® Xeon® Gold 6526Y	04,23	16	32	2.8 GHz	3.9 GHz	195
Intel® Xeon® Gold 5515+	04,23	8	16	3.2 GHz	4.1 GHz	165
Intel® Xeon® Gold 6530	04,23	32	64	2.1 GHz	4.0 GHz	270
Intel® Xeon® Gold 5520+	04,23	28	56	2.2 GHz	4.0 GHz	205
Intel® Xeon® Silver 4516Y+	04,23	24	48	2.2 GHz	3.7 GHz	185
Intel® Xeon® Silver 4514Y	04,23	16	32	2.0 GHz	3.4 GHz	150
Intel® Xeon® Silver 4510	04,23	12	24	2.4 GHz	4.1 GHz	150
Intel® Xeon® Silver 4509Y	04,23	8	16	2.6 GHz	4.1 GHz	125
Intel® Xeon® Silver 4510T	04,23	12	24	2.0 GHz	3.7 GHz	115
Intel® Xeon® Bronze 3508U	04,23	8	8	2.1 GHz	2.2 GHz	125
Intel® Xeon® Gold 6448Y	01,23	32	64	2.1 GHz	4.1 GHz	225
Intel® Xeon® Gold 6426Y	01,23	16	32	2.5 GHz	4.1 GHz	185
Intel® Xeon® Gold 6418H	01,23	24	48	2.1 GHz	4.0 GHz	185
Intel® Xeon® Gold 5415+	01,23	8	16	2.9 GHz	4.1 GHz	150
Intel® Xeon® Gold 5420+	01,23	28	56	2.0 GHz	4.1 GHz	205
Intel® Xeon® Gold 5418Y	01,23	24	48	2.0 GHz	3.8 GHz	185
Intel® Xeon® Silver 4416+	01,23	20	40	2.0 GHz	3.9 GHz	165
Intel® Xeon® Silver 4410Y	01,23	12	24	2.0 GHz	3.9 GHz	150
Intel® Xeon® Silver 4410T	01,23	10	20	2.7 GHz	4.0 GHz	150
Intel® Xeon® Bronze 3408U	01,23	8	8	1.8 GHz	1.9 GHz	125
Intel® Xeon® Gold 6430	01,23	32	64	2.10 GHz	3.40 GHz	270

## Assured Systems

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