

# HPS-ERSU2A

Single 4th/5th Generation Intel® Xeon® Scalable Processor with Intel® C741 Chipset, 500W, 5x RJ-45, IPMI2.0 Workstation



## Features

- 19" 2U Chassis
- 432.4mm (W) x 88mm (H) x 661mm (D)
- 1 x 500W ATX PSU
- 4x Internal 3.5" storage bays + 2x Internal 3.5" or 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

Processor	Intel LGA4677 Socket supports 4th/5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)
Platform Controller Hub	Intel® C741 Chipset
System Memory	6 x DDR5 5600 MHz RDIMM up to 1.5TB
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
TPM	TPM 2.0 onboard
IPMI	IPMI 2.0 with AST 2600 BMC controller onboard
SBC	HPM-ERSUA

### Front I/O

USB	2 x USB 2.0 type A 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 (Reserved) 1 x Network activity indicator 1 x System error indicator

### Rear I/O

USB	4 x USB 3.2 Gen1 ports 2 x USB 2.0 type A 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 shares with IPMI access LAN2 port for 2.5GbE 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 500W ATX PSU
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### Expansion

Expansion	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

M.2	1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280/22110 form factor
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### Ethernet

LAN Chipset	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
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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
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### Mechanical & Environmental

Operating Temp.	0 ~ 40°C (L6 system)
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	12.7KG
Dimension (W x L x D)	19" 2U Chassis 432.4mm (W) x 88mm (H) x 661mm (D) 488mm (W) x 88mm (H) x 661mm (D) with ear mount

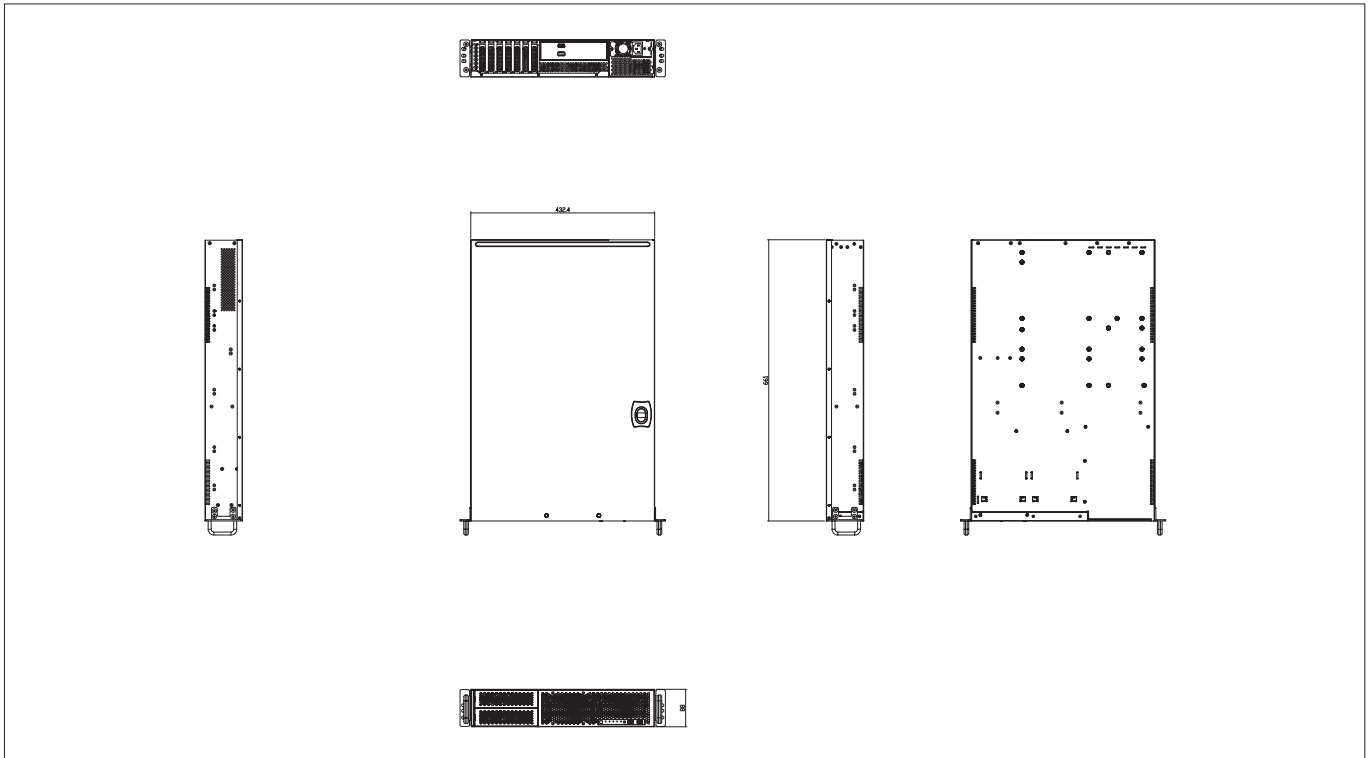
### Software Support

OS	Windows 10 IoT Enterprise LTSC 2021 Windows 11 Windows Server IoT 2019 with VT-d disabled Windows Server IoT 2022 Ubuntu 21.10, 22.04 LTS or later Red Hat Enterprise Linux (RHEL) 8.2 and later
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## Mechanical Drawing



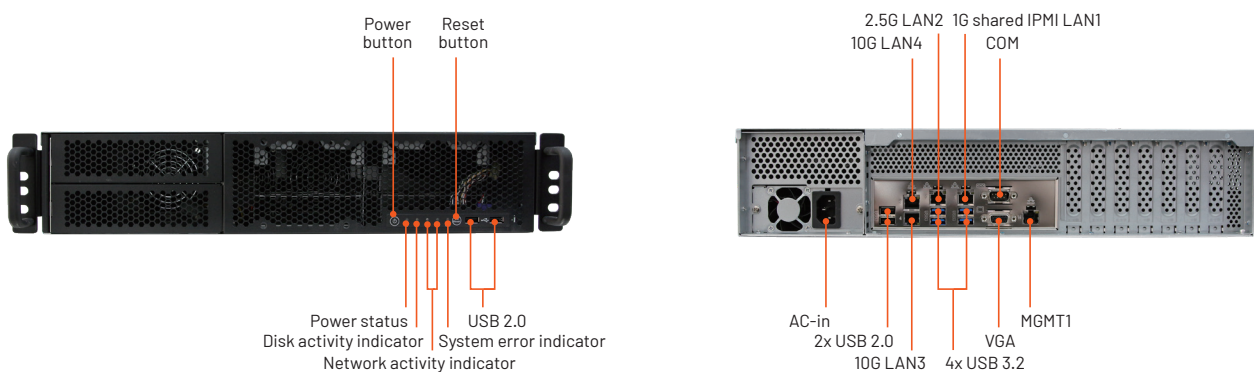
## Ordering Information

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-ERSU2A	HPS-ERSU2A5-A1R	1	C741	6	7	2/1/1	0/4/4	0	500W ATX

## Packing List

Item	P/N	Quantity
L6 19" 2U Rackmount w/HPM-ERSUAA/1300W	HPS-ERSU2A5-A1R	1
LGA4677 CPU carrier-E1B	E199TR00063R	1

## 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+	Q4,23	32	64	2.5 GHz	4.1 GHz	250
Intel® Xeon® Gold 6526Y	Q4,23	16	32	2.8 GHz	3.9 GHz	195
Intel® Xeon® Gold 5515+	Q4,23	8	16	3.2 GHz	4.1 GHz	165
Intel® Xeon® Gold 6530	Q4,23	32	64	2.1 GHz	4.0 GHz	270
Intel® Xeon® Gold 5520+	Q4,23	28	56	2.2 GHz	4.0 GHz	205
Intel® Xeon® Silver 4516Y+	Q4,23	24	48	2.2 GHz	3.7 GHz	185
Intel® Xeon® Silver 4514Y	Q4,23	16	32	2.0 GHz	3.4 GHz	150
Intel® Xeon® Silver 4510	Q4,23	12	24	2.4 GHz	4.1 GHz	150
Intel® Xeon® Silver 4509Y	Q4,23	8	16	2.6 GHz	4.1 GHz	125
Intel® Xeon® Silver 4510T	Q4,23	12	24	2.0 GHz	3.7 GHz	115
Intel® Xeon® Bronze 3508U	Q4,23	8	8	2.1 GHz	2.2 GHz	125
Intel® Xeon® Gold 6448Y	Q1,23	32	64	2.1 GHz	4.1 GHz	225
Intel® Xeon® Gold 6426Y	Q1,23	16	32	2.5 GHz	4.1 GHz	185
Intel® Xeon® Gold 6418H	Q1,23	24	48	2.1 GHz	4.0 GHz	185
Intel® Xeon® Gold 5415+	Q1,23	8	16	2.9 GHz	4.1 GHz	150
Intel® Xeon® Gold 5420+	Q1,23	28	56	2.0 GHz	4.1 GHz	205
Intel® Xeon® Gold 5418Y	Q1,23	24	48	2.0 GHz	3.8 GHz	185
Intel® Xeon® Silver 4416+	Q1,23	20	40	2.0 GHz	3.9 GHz	165
Intel® Xeon® Silver 4410Y	Q1,23	12	24	2.0 GHz	3.9 GHz	150
Intel® Xeon® Silver 4410T	Q1,23	10	20	2.7 GHz	4.0 GHz	150
Intel® Xeon® Bronze 3408U	Q1,23	8	8	1.8 GHz	1.9 GHz	125
Intel® Xeon® Gold 6430	Q1,23	32	64	2.10 GHz	3.40 GHz	270