

# 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

|                         |                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------|
| 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<br>Fan speed and voltage monitoring<br>Fan speed control<br>Case open detection     |
| 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 3.2 Gen1 ports                                                                      |
| Power Button  | 1 x Power button                                                                            |
| Reset Button  | 1 x Reset button                                                                            |
| LED Indicator | 1 x Power status indicator<br>1 x Disk activity indicator<br>1 x Network activity indicator |

### Rear I/O

|          |                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB      | 4 x USB 3.2 Gen1 ports<br>2 x USB 2.0 type A ports                                                                                                       |
| COM Port | 1 x RS232 port                                                                                                                                           |
| VGA      | 1 x VGA port                                                                                                                                             |
| RJ-45    | 5 x RJ45<br>MGMT port for dedicated IPMI access only<br>LAN1 port for 1GbE shares with IPMI access<br>LAN2 port for 2.5GbE<br>LAN3 and 4 ports for 10GbE |

### Display

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

### Power Requirement

|                   |                       |
|-------------------|-----------------------|
| Power Supply Unit | 1 x 1300W PS2 ATX PSU |
|-------------------|-----------------------|

### Expansion

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

### Storage

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

### Ethernet

|             |                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| LAN Chipset | 1 x Intel I210AT 1GbE controller<br>1 x Intel I226-LM 2.5GbE controller<br>1 x Intel X550AT2 10GbE controller supports 2 x 10GbE Ethernet ports          |
| LAN Port    | 5 x RJ45<br>MGMT port for dedicated IPMI access only<br>LAN1 port for 1GbE shares with IPMI access<br>LAN2 port for 2.5GbE<br>LAN3 and 4 ports for 10GbE |

### Mechanical & Environmental

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

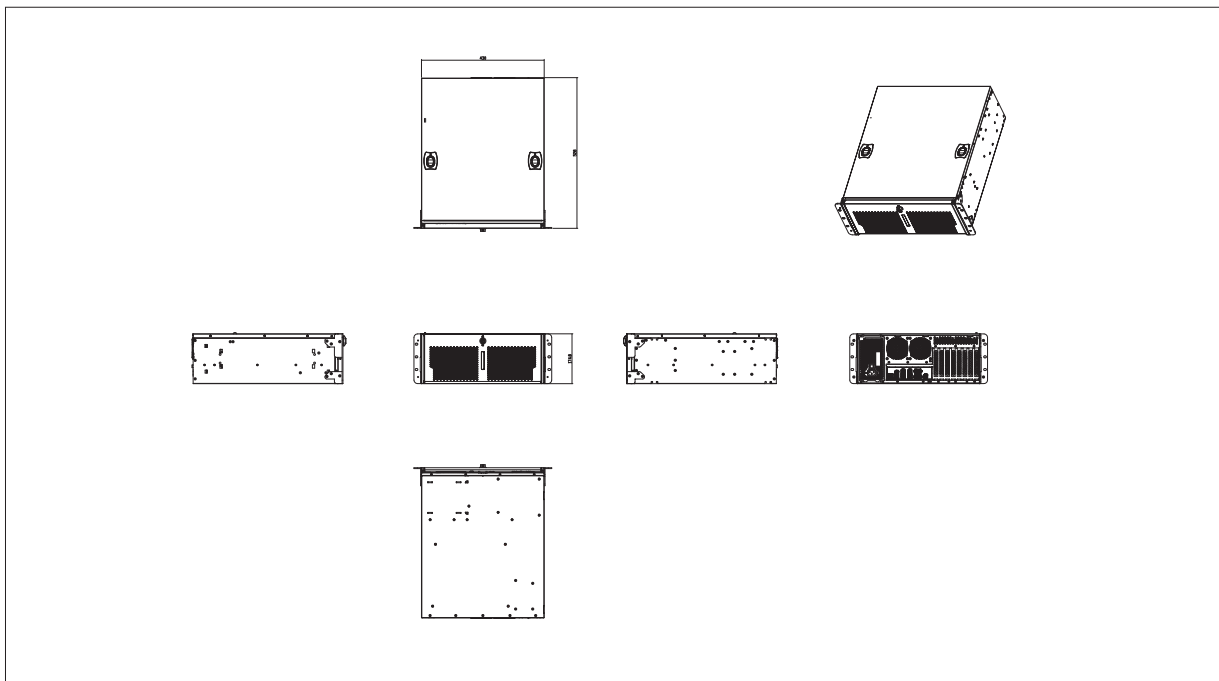
### Software Support

|    |                                                                                                                                                                                      |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OS | Windows 10 IoT Enterprise LTSC 2021<br>Windows 11<br>Windows Server 2019<br>Windows Server 2022<br>Ubuntu 21.10, 22.04 LTS or later<br>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<br>w/HPM-ERSUAA/1300W | HPS-ERSU4AD-A1R | 1        |
| LGA4677 CPU carrier-E1B                   | E199TR00063R    | 1        |

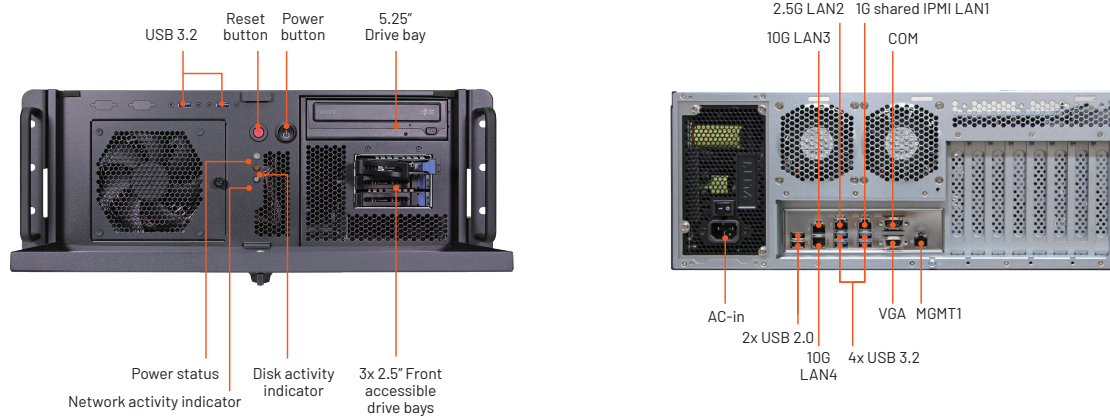
## Optional Items

| 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+   | 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     |

## Assured Systems

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