

HPS-ERSU1A

Single 4th/5th Generation Intel® Xeon® Scalable Processor
with Intel® C741 Chipset, 450W, 5x RJ-45, IPMI2.0 Workstation



Features

- 19" 1U Chassis
- 430mm (W) x 43.5mm (H) x 393.2mm (D)
- 1 x 450W ATX PSU
- 2 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 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 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 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 450W ATX PSU
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Expansion

Expansion	1 x PCIe Gen5 x4 slots Slot 1, PCIe 5.0 x4
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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
2.5 Drive Bay	2 x Front accessible 2.5" storage bays

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
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.	TBC
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	6.6 KG
Dimension (W x L x D)	19" 1U Chassis 393.2mm (W) x 43.5mm (H) x 430mm (D) 445.8mm (W) x 43.5mm (H) x 430mm (D) with ear mount

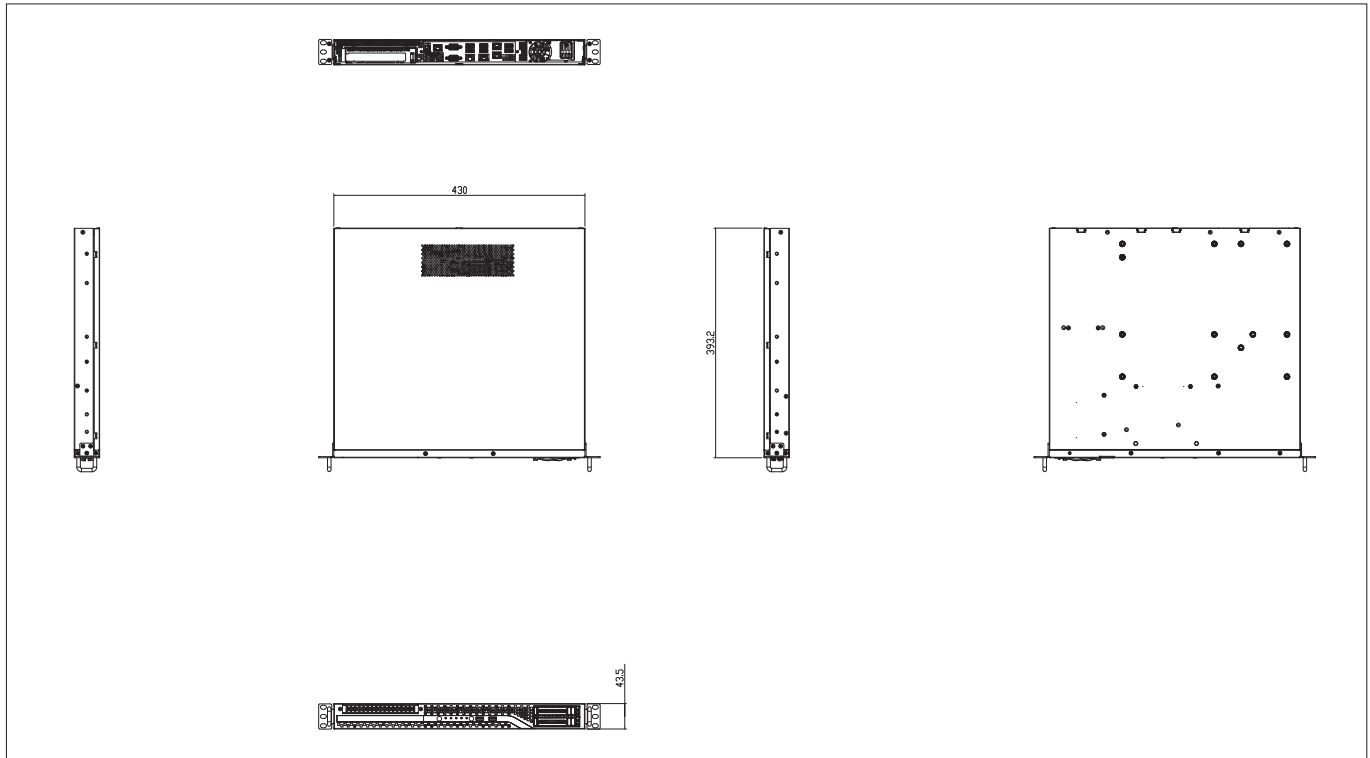
Software Support

OS	Windows 10 IoT Enterprise LTSC 2021 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



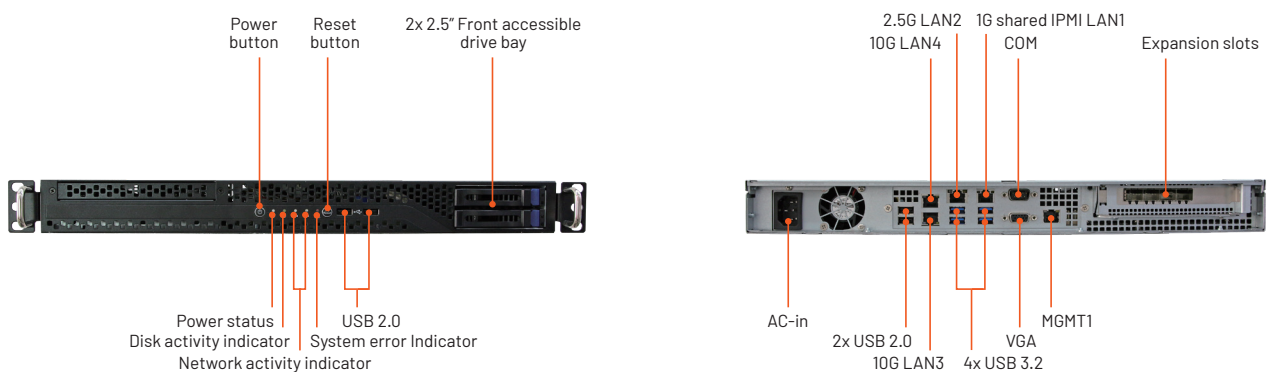
Ordering Information

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-ERSU1A	HPS-ERSU1A4-A1R	1	C741	6	1	2/1/1	0/4/4	2	450W ATX

Packing List

Item	P/N	Quantity
L6 19" 1U Rackmount w/HPM-ERSUAA/450W	HPS-ERSU1A4-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