

HPS-ERSD4B

Dual 4th/5th Generation Intel® Xeon® Scalable Processors
with Intel® C741 Chipset, 1300W, 5 x RJ-45, IPMI2.0,
1-1 Liquid Cooling Workstation



Features

- 19" 4U Chassis
- 430mm (W) x 174.8mm (H) x 834mm (D)
- 1 x 1300W PS2 ATX PSU
- 3 x Front accessible 2.5" storage bays
- Dual Intel LGA4677 Sockets support 4th/5th Generation Intel® Xeon® Scalable Processors (Max. TDP at 270W)
- Intel® C741 Chipset
- 12 x DDR5 5600 MHz RDIMM up to 3TB
- 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
- 1-to-1 Liquid Cooling module with 2 x CPU Liquid Heat Dissipation Plates with Water-Tight Connectors.



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



12 x DDR5
RDIMM
5600MHz



IPMI 2.0
Supported



PCIe Gen5
Multiple
Expansion



1-1 CPU
Liquid
Cooling

Specifications

System Information

Processor	Dual Intel FCLGA4677 Sockets support 4th/5th Generation Intel Xeon Scalable Processors (Max. TDP at 270W each)
Platform Controller Hub	Intel® C741 Chipset
System Memory	12 x DDR5 5600 MHz RDIMM up to 3TB
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 Case open detection
TPM	TPM 2.0 onboard
IPMI	IPMI 2.0 with AST 2600 BMC controller onboard
SBC	HPM-ERSDE

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 1 x Disk activity indicator 1 x Network activity indicator

Rear I/O

USB	6 x USB 3.2 Gen1 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 1300W PS2 ATX PSU (Default) 1 x 1600W CRPS (Option)
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Expansion

Expansion	7 x PCIe Gen5 x16 slots Slot 1, PCIe 5.0 x16 from 2nd CPU Slot 2, PCIe 5.0 x16 from 1st CPU Slot 3, PCIe 5.0 x16 from 2nd CPU Slot 4, PCIe 5.0 x16 from 1st CPU Slot 5, PCIe 5.0 x16 from 2nd CPU Slot 6, PCIe 5.0 x16 from 1st CPU Slot 7, PCIe 5.0 x16 from 2nd CPU (Slot 7 is the slot closest to CPU)
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Storage

M.2	1 x M.2 M-Key PCIe 5.0 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 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.	0 ~ 35°C (L6 system with 1300W ATX PSU) 0 ~ 40°C (L6 system with 1600W CRPS)
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
Dimension (W x L x D)	19" 4U Chassis 430mm (W) x 174.8mm (H) x 834mm (D)

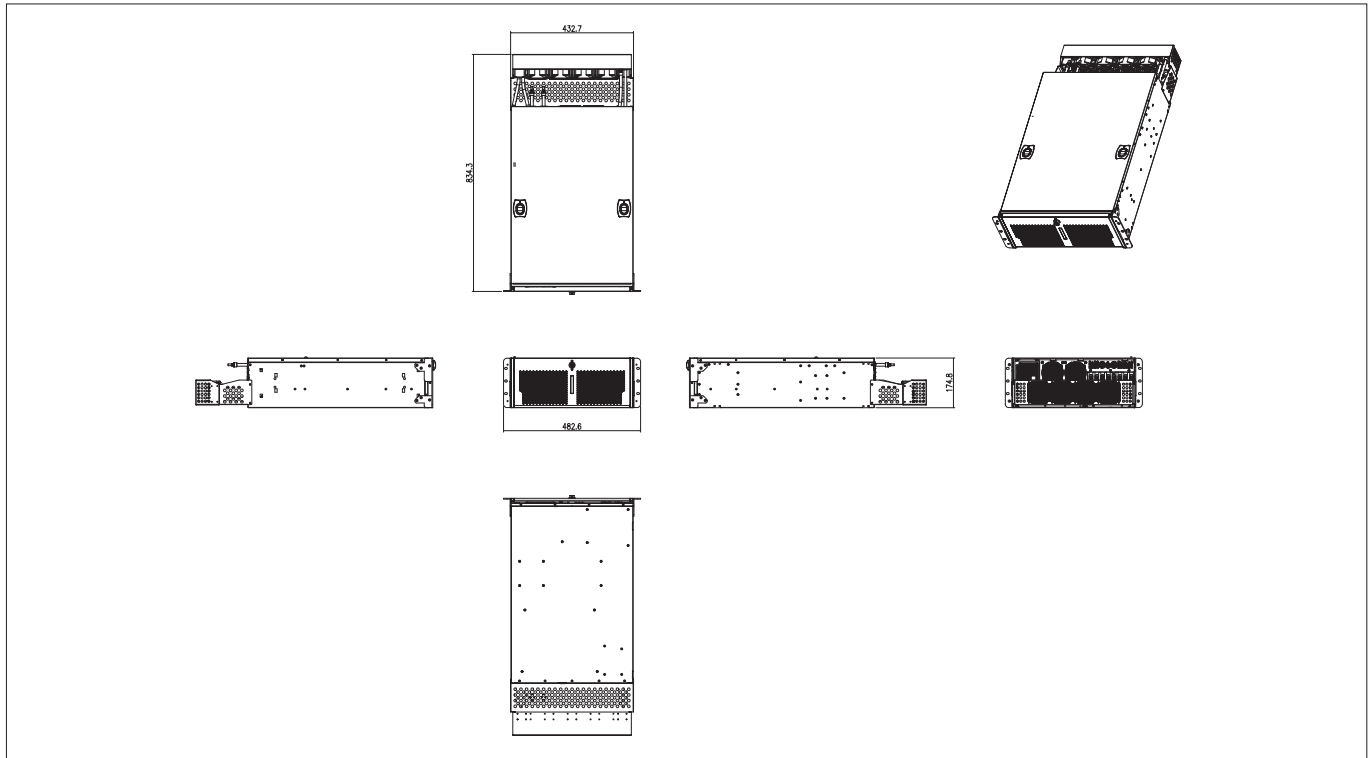
Software Support

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-ERSD4B	HPS-ERSD4BD-A1R	2	C741	12	7	2/1/1	0/8/0	3	1300W PS2 ATX
HPS-ERSD4B	HPS-ERSD4BU-A1R	2	C741	12	7	2/1/1	0/8/0	3	1600W CRPS

Packing List

Item	P/N	Quantity
L6 19" 4U Rackmount w/HPM-ERSDEA/ 1300W/1-to-1 Cooling module	HPS-ERSD4BD-A1R	1

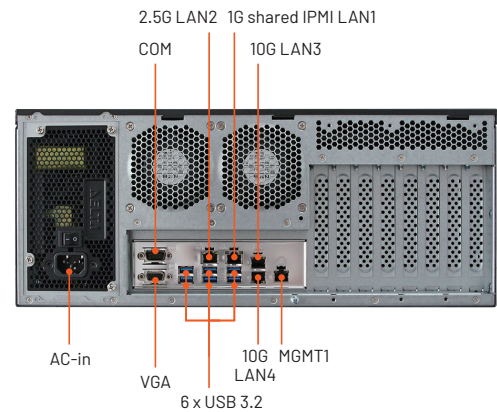
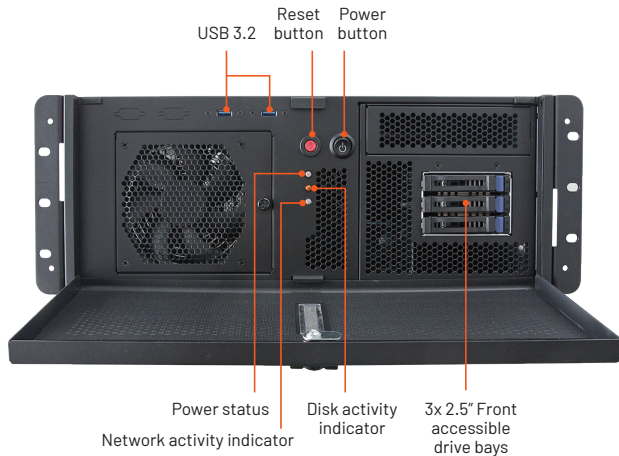
Optional Items

Item	P/N
US Power Cord 1.8M	E170P060390R
EU Power Cord 1.8M	E1702031000R
UK Power Cord 1.8M	E170P060380R
JP Power Cord 1.8M	E170P060410R

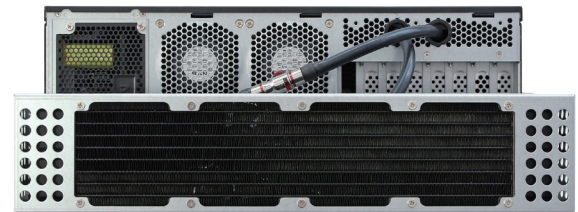
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I/O Overview



(System Rear I/O)



(Rear View of the Installed 1-1 Liquid Cooling Module)

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