

HPS-621U2A

Single 1st/2nd Gen. ® Xeon® SP processor with
Intel® C621 chipset, 500W, 4 x RJ-45, IPMI2.0 workstation



Features

- 19" 2U Chassis
- 483mm (W) x 88mm (H) x 650mm (D)
- 1 x 1U 80plus Gold 500W PSU
- 4 x External 5.25" storage bay & 2 x Internal 3.5" storage bay
- Intel FCLGA3647 Socket supports 1st and 2nd Gen. Intel Xeon Scalable processors (Max. TDP at 150W)
- Intel C621 chipset
- 6 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/LRDIMM up to 768GB
- IPMI 2.0 with AST 2500 BMC controller onboard
- 4 x Intel I210AT 1GbE controllers



1st/2nd
Gen.
Intel® Xeon®
Scalable
Processor



6 x DDR4
RDIMM/LRDIMM
2933/2666/
2400/ 2133MHz



IPMI 2.0
supported



PCIe
Gen3
multiple
expansion

Specifications

System Information

Processor	Intel FCLGA3647 Socket supports 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W)
Platform Controller Hub	Intel® C621 Chipset
System Memory	6 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 768GB
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 2500 BMC controller onboard
SBC	HPM-621UA

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 1 x Network activity indicator

Rear I/O

USB	4 x USB 3.2 Gen1 ports
COM Port	1 x RS232 port (Bracket at Slot 1)
VGA	1 x VGA port (Bracket at Slot 2)
RJ-45	4 x RJ45 (LAN1 shares IPMI port)

Display

Graphic Chipset	AST 2500 BMC controller
Resolution	1 x VGA port VGA: 1920 x 1200 @ 60Hz 32bpp

Power Requirement

Power Supply Unit	1 x 1U 80plus Gold 500W PSU
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Expansion

Expansion	1 x PCI 3.0 slot, 3 x PCIe Gen3 x16 slots or 6 x PCIe Gen3 x8 slots Slot 1, PCI 3.0 Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 (x16 will switch to x8 automatically when Slot 2 is used) Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 (x16 will switch to x8 automatically when Slot 4 is used) Slot 6, PCIe 3.0 x8 Slot 7, PCIe 3.0 x16 (Slot 7 is the slot closest to CPU, x16 will switch to x8 automatically when Slot 6 is used)
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Storage

M.2	1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280 form factor
2.5 Drive Bay	1 x Internal 2.5" storage bay
Other Storage Device	4 x External 5.25" drive bays 2 x Internal 3.5" drive bays

External

LAN Chipset	4 x Intel I210AT 1GbE controllers
LAN Port	4 x RJ45 (LAN1 shares IPMI port)

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	40°C @95% Relative Humidity, Non-condensing
Weight	16KG
Dimension (W x L x D)	483mm x 88mm x 650mm (W x H x D)

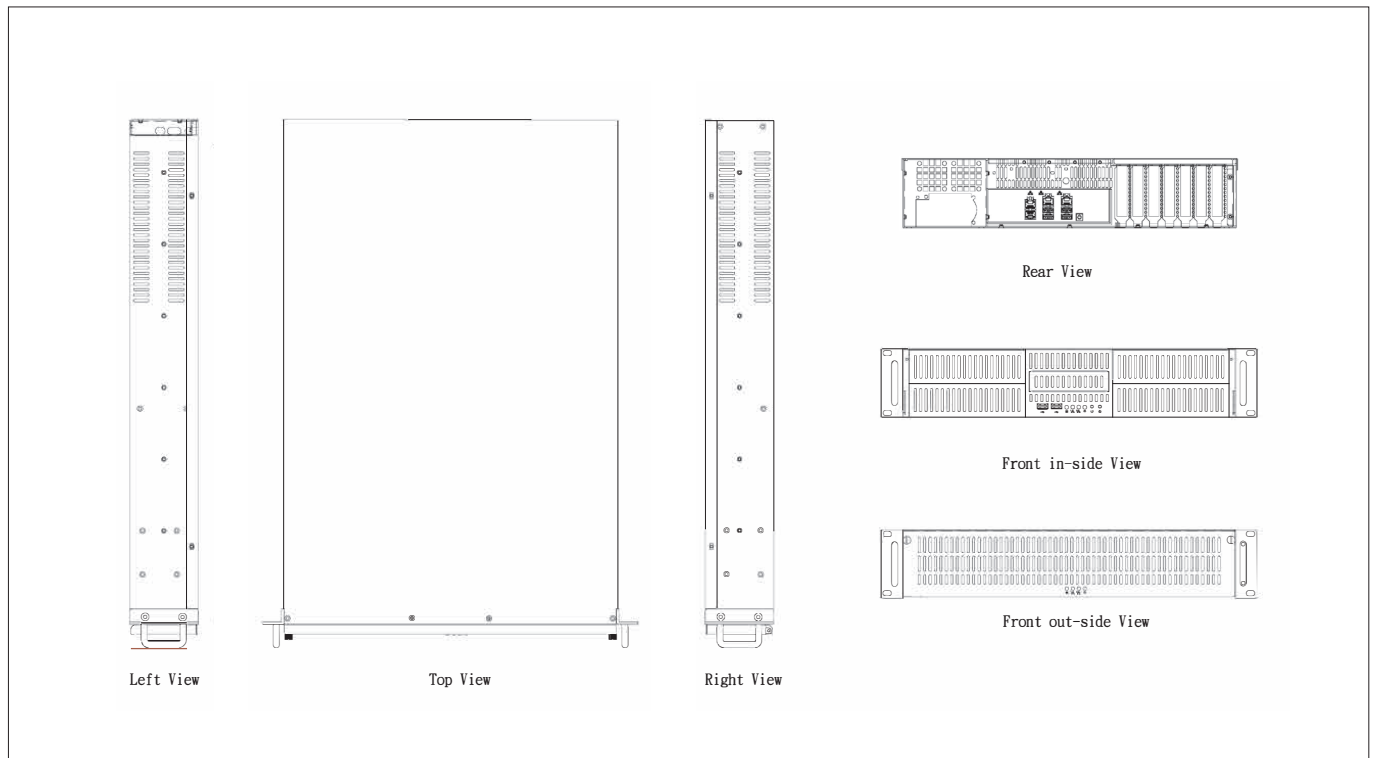
Software Support

OS	Windows 10 IoT Enterprise Windows Server 2016 Windows Server 2019 Ubuntu 18.04 LTS or 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-621U2A	HPS-621U2A5-A1R	1	C621	6	7	-/-/4	-/4/2	1	500W PS2 ATX

Packing List

Item	P/N	Quantity
L6 19" 2U Rackmount w/HPM-621UAA/500W	HPS-621U2A5-A1R	1

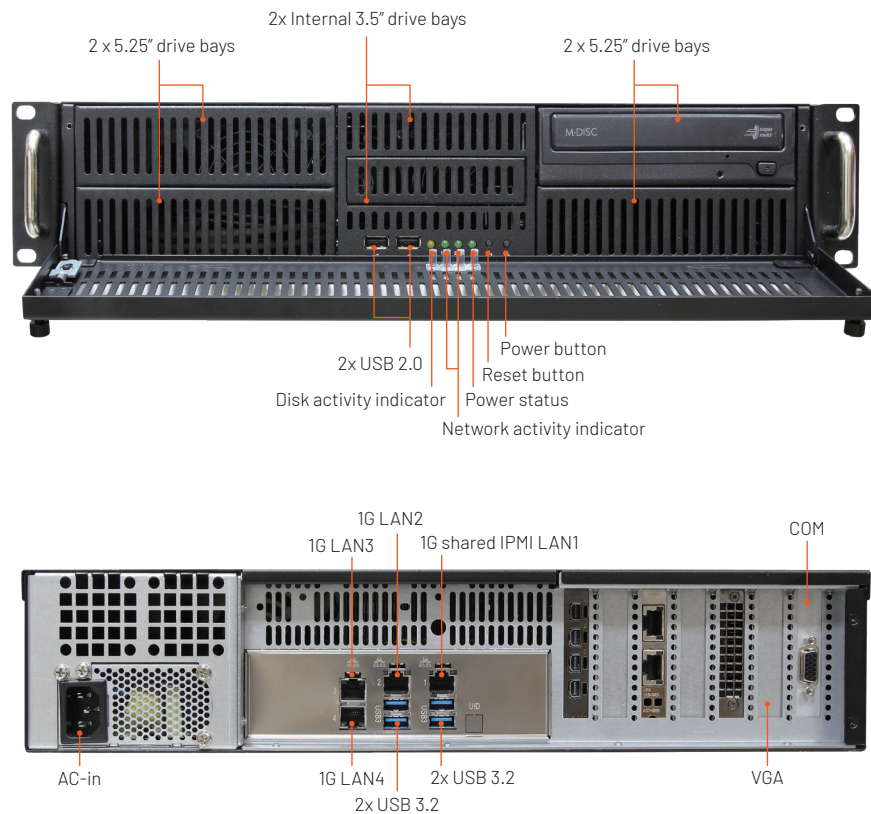
Optional Items

Item	P/N
CPU Cooler for LGA3647 2U (Only for HPS-621U2A use)	E1961121B25000R
US Power Cord 1.8M	E1702031833R

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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® Bronze 3106	Q3'17	8	8	1.70 GHz	NA	85
Intel® Xeon® Silver 4109T	Q3'17	8	16	2.00 GHz	3.00 GHz	70
Intel® Xeon® Silver 4110	Q3'17	8	16	2.10 GHz	3.00 GHz	85
Intel® Xeon® Silver 4114T	Q3'17	10	20	2.20 GHz	3.00 GHz	85
Intel® Xeon® Silver 4116	Q3'17	12	24	2.10 GHz	3.00 GHz	85
Intel® Xeon® Silver 4116T	Q3'17	12	24	2.10 GHz	3.00 GHz	85
Intel® Xeon® Gold 5118	Q3'17	12	24	2.30 GHz	3.20 GHz	105
Intel® Xeon® Gold 5119T	Q3'17	14	28	1.90 GHz	3.20 GHz	85
Intel® Xeon® Gold 5120T	Q3'17	14	28	2.20 GHz	3.20 GHz	105
Intel® Xeon® Gold 6126T	Q3'17	12	24	2.60 GHz	3.70 GHz	125
Intel® Xeon® Gold 6126	Q3'17	12	24	2.60 GHz	3.70 GHz	125
Intel® Xeon® Gold 6130T	Q3'17	16	32	2.10 GHz	3.70 GHz	125
Intel® Xeon® Gold 6130	Q3'17	16	32	2.10 GHz	3.70 GHz	125
Intel® Xeon® Gold 6138	Q3'17	20	40	2.00 GHz	3.70 GHz	125
Intel® Xeon® Silver 4209T	Q2'19	8	16	2.20 GHz	3.20 GHz	70
Intel® Xeon® Silver 4210	Q2'19	10	20	2.20 GHz	3.20 GHz	85
Intel® Xeon® Silver 4215	Q2'19	8	16	2.50 GHz	3.50 GHz	85
Intel® Xeon® Silver 4214	Q2'19	12	24	2.20 GHz	3.20 GHz	85
Intel® Xeon® Silver 4216	Q2'19	16	32	2.10 GHz	3.20 GHz	100
Intel® Xeon® Gold 5215	Q2'19	10	20	2.50 GHz	3.40 GHz	85
Intel® Xeon® Gold 5218T	Q2'19	16	32	2.10 GHz	3.80 GHz	105
Intel® Xeon® Gold 6226	Q2'19	12	24	2.70 GHz	3.70 GHz	125
Intel® Xeon® Gold 6230	Q2'19	20	40	2.10 GHz	3.90 GHz	125
Intel® Xeon® Gold 6238T	Q2'19	22	44	1.90 GHz	3.70 GHz	125