

SKY-6420

4U Rackmount Intel® Xeon® Scalable GPU Server, Supporting 10 x PCIe x16 Double-Deck Cards Plus 1 x PCIe x16 and 1 x PCIe x8 Single-Deck Cards



Features

- Processor: Dual 2nd Gen Intel® Xeon® Scalable Processors
- Memory: 24 x DDR4 2666/2933 MHz ECC RDIMM/LRDIMM / Intel Optane DC Persistent Memory, up to 6TB
- Remote Management: IPMI function support
- Expansion: Supporting 10 * PCIe x16 double-deck card with peer to peer feature + 1* PCIe x16 single-deck FH/HL card + 1*PCIe x8 card
- PSU: 4800W 3+1 redundant power supply with 80 PLUS Platinum level certification
- Easy maintenance system fan: 6 x 12CM system fan with Hot-Swappable feature

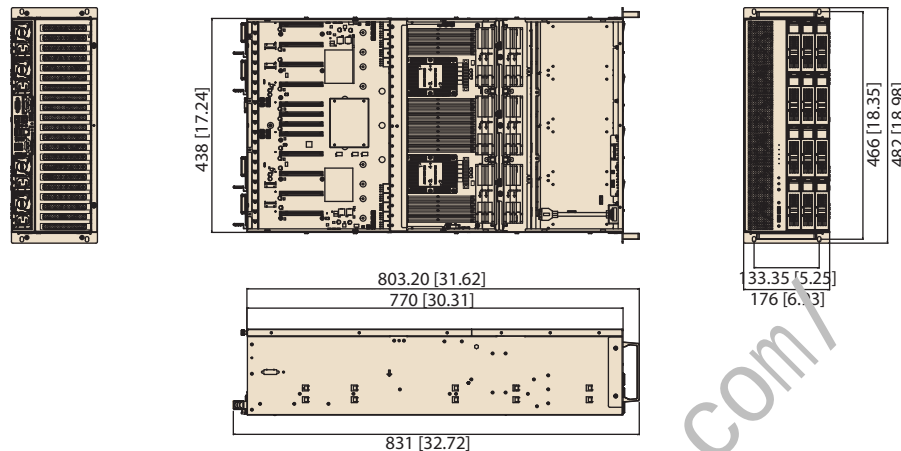


Specifications

Processor System	Chipset	Intel C622 Chipset	
	CPU	Dual Socket P LGA-3647 2nd Gen Intel Xeon® Scalable processors (TDP up to 160W) BIOS V2.00 or above is required for 2nd Gen Xeon Scalable processors	
	Memory	24 x DDR4 2666/2933 MHz ECC RDIMM / LRDIMM / Intel Optane DC Persistent Memory, up to 6TB	
Graphics	Controller	Aspeed AST2500	
	VRAM	64 MB	
Expansion Slot	Slot 1	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 2	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 3	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 4	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 5	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 6	PCIe x16 slot (Gen3 x16 link), for single-deck add on cards.	
	Slot 7	PCIe x16 slot (Gen3 x8 link), if Slot8 populated with single-deck add on card	
	Slot 8	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 9	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 10	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 11	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 12	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
Storage	2.5" (Internal)	-	
	3.5" (Front Accessible/Hot Swappable)	12 (support 2.5"/3.5" drive)	
	M.2	1 (2280, SATA+PCIe x2)	
Ethernet	Interface	2 x 10GbE	
	Controller	Intel X557-AT2	
Front I/O Interface	USB	2 x USB 3.0	
	USB	4 x USB 3.0	
Rear I/O Interface	PS/2	-	
	COM	2 (Optional)	
	Display	1 x VGA	
	RJ-45	3 (1 is dedicate NIC for IPMI)	
	USB	3 (2 USB3.0, 1 USB 3.0 Type-A)	
Internal connector	COM	2	
	LPC	-	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 3+1 4800W redundant Power Supply (Depends on input voltage)	
	Input Range (each unit)	100~127 V _{AC} (Output: 1000W)	
		200~240V _{AC} (Output: 1600W)	
Cooling	Chassis Fan	6 x 120 x 38 (Internal) + 4 x 80 x 38 (External, Optional)	
	Air Filter	-	
Miscellaneous	LED Indicators	Power status, System Information, HDD activity, LAN1 & LAN2	
	Front Button	Power, Reset, PSU Alarm Mute	
	Remote Management	Advantech Remote Monitoring Utility	
Environment	Temperature	Operating	Non-Operating
		0 ~ 35° C (32 ~ 85° F) *0 ~ 30° C (32 ~ 85.9° F) for NVIDIA Tesla V100	-40 ~ 60° C (-4 ~ 140° F)
	Humidity	95% @ 40° C	95% @ 60° C
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G (unit only)/2.16G (with packing)
	Shock	5G (with 11ms duration, half sine wave)	
Physical Characteristics	Dimension (W x H x D)	438 x 176 x 770 mm (17.24" x 6.93" x 30.31")	
	Package Dimension (W x H x D)	685 x 400 x 1050 (26.96" x 15.74" x 41.33")	
	Weight (N.W. / G.W.)	39kg / 41.67kg	

Dimensions

Unit: mm [inch]



Front View

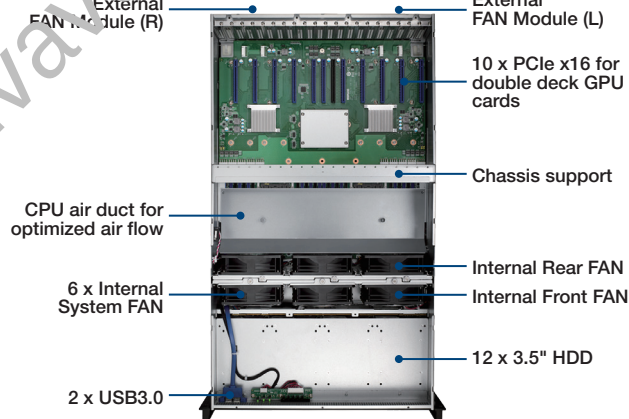
LAN / HDD / Power / Information LED
Power / Reset / Mute Button



2 x USB 3.0
12 x 3.5" SAS/SATA HDD bay

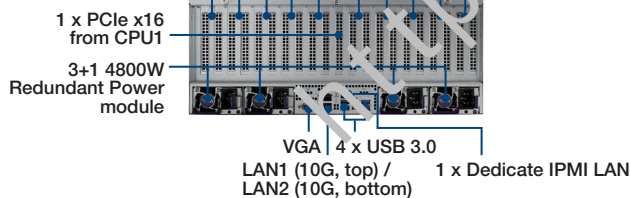
Inside View

External FAN Module (R)



Rear View

10 x PCIe x16 for double deck GPU cards



Ordering Information

Part Number	HDD	M.2 2280	VGA Chip	RJ45	IPMI	Power supply
SKY-6420-R48A1	12	1 (SATA + PCIe x2)	AST 2500	3	YES	3+1 4800W RPS

System Contents

Items	Advantech P/N	Quantity
CPU Heatsink	1960081155N111	2
CPU Clip for Heatsink	1651003167-01	2
Startup Manual	2041642000	1
GPU Extend Bracket	1960087346N000	10
Air Block Bracket for Thermal Optimizat-ion	1960086607N000	7

Optional Accessories

Part	Number Description
PCA-TPM-00A1E	TPM Module
1700019414	COM port cable (1 port)
968AE00066	Slide Rail
1700024753-01	GPU Power cable for CPU-8P (15CM) For Tesla GPU card with CPU-8P connector
1700030122-01	GPU Power cable for PCIe 8P+8P (30CM) For Quadro/RTX/Titan GPU card with PCIe power connector.
1700035589-01	GPU power cable for 12V2x6 (30cm, 300W) for new generation GPU card with 12V2x6 connector
96CB-MSASH-MSASH-1	mSASHD to mSASHD 100cm for RAID card cable out at top side
1700025065-01	mSASHD to mSASHD 85cm for RAID card cable out at rear side
98R16420100	Internal hot-swappable FAN kit (Front)
98R16420200	Internal hot-swappable FAN kit (Rear)
98R16420300	External Optional FAN Kit (Left)
98R16420400	External Optional FAN Kit (Right)
98R16420500	Optional top cover for RTX / Titan GPU card. With this cover, system will exceed standard 4U height
1700027928-01	UL Power core (125V,15A)
1700027909-02	BSMI Power Core (125V,15A)
1702002605	EU Power Core (250V,10A)