SKY-6400

4U Rackmount Intel® Xeon® Scalable GPU Server, Supporting 4 x PCIe x16 Double-Deck Cards Plus 1 x PCIe x8 and 1 x PCIe x4 Single-Deck Cards



Features

- Processor: Dual 2nd Gen Intel® Xeon® scalable processors
- Memory: 12 x DDR4 2666/2933 MHz ECC RDIMM/LRDIMM / Intel Optane DC Persistent Memory, up to 2TB
- Remote Management: IPMI function support
- Expansion: Supporting 4 * PCIe x16 double-deck card + 1* PCIe x8 single-deck FH/HL card + 1*PCIe x4 card
- PSU: 2000W 1+1 redundant power supply with 80 PLUS Platinum level certification
- Easy maintenance system fan: 3 x 12CM system fan with easy maintenance feature

Specifications

Processor System	Chipset	Intel C621 Chipset	
	CPU	Dual Socket P LGA-3647 2nd Gen Intel Xeon Scalable processors (TDP up to 205W*) BIOS V2.00 or above is required for 2nd Gen Xeon Scalable processors	
	Memory type	12 x DDR4 2666/2933 MHz ECC RDIMM/LRDIMM / Intel Optane DC Persistent Memory, up to 2TB	
Graphics	Controller	Aspeed AST2500	
	VRAM	64 MB	
Expansion Slot	Slot 1	PCIe x4 (Gen3 x 4 link)	
	Slot 2	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 3	PCIe x4 (Gen3 x 4 link)	
	Slot 4	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 5	PCIe x4 (Gen3 x 4 link)	
	Slot 6	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 7	PCIe x4 (Gen3 x 4 link)	
	Slot 8	PCIe x16 (Gen3 x 16 link), for double -deck 4.276"(H)/10.5"(L} expansion cards	
	Slot 9	PCIe x8 (Gen3 x 8 link)	
Drive Bay	2.5" (Internal)	2	
	3.5" (Front Accessible)	-	
	3.5" (Hot Swap)	8 (support 2.5"/3.5" drive)	
Ethernet	Interface	10/100/1000 Mbps Gigabit	
	Controller	2 x Intel I210AT	
Front I/O Interface	USB	2 x USB 3.0	
Rear I/O Interface	USB	4 x USB 3.0	
	PS/2	-	
	COM	1	
	Disaplay	1 x VGA	
	RJ-45	2 (1 is sharing NIC for IPMI)	
Internal connector	USB	5 (2 USB3.0, 2 USB2.0, 1 USB 2.0 Type-A)	
	COM	1	
	LPC	1	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 2000W redundant Power Supply (Depends on input voltage)	
	Input Range	200-240V_{AC} (Output: 1800W-1968W)	
Cooling	Chassis Fan	3 x 120 x 38 + 2 x 80 x 38	
	Air Filter	-	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN1 & LAN2	
	Remote Management	Advantech Remote Monitoring Utility	
Environment		Operating	Non-Operating
	Temperature	0 ~ 35° C (32 ~ 85° F) *0 ~ 30° C (32 ~ 85.9° F) for NVidia Tesla P100/V100	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	95% @ 40° C	95% @ 60° C
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G
	Shock	10G (with 11ms duration, half since wave)	
Physical Characteristics	Dimension (W x H x D)	435 x 177 x 673 mm (17.12" x 6.96" x 26.49")	
	Package Dimension (W x H x D)	705 x 345 x 905 (27.75" x 13.58" x 35.63")	
	Weight (N.W. / G.W.)	38 Kg / 41.75 Kg	

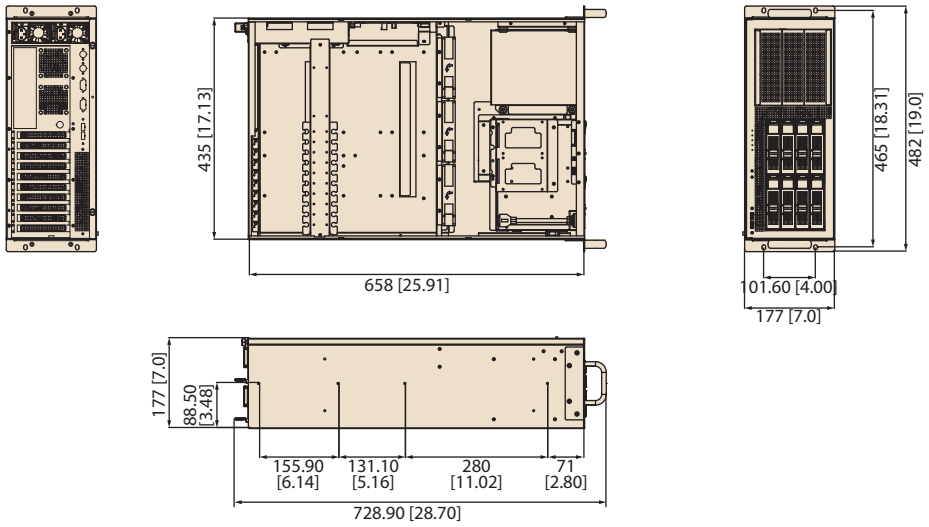
* CPU Max TDP support depends on CPU cooler selection

All product specifications are subject to change without notice.

Last updated: 13-Feb-2025

Dimensions

Unit: mm [inch]



Front View



Rear View



Ordering Information

Part Number	HDD	M.2 2242 (SATA)	VGA Chip	RJ45	IPMI	Power supply
SKY-6400-R20B1	10	2	AST 2500	2	YES	1+1 2000W RPS

System Contents

Items	Advantech P/N	Quantity
CPU Cooler, max support 150W	1960088272T001	2
GPU Card Power Cable (Convert PCIe 6P+2P to CPU 8P)	1700027652-01	4
Driver CD	2061097500	1
External Fan Kit (8CM Fan x2)	96616400200	1
GPU Extend Bracket (Fulfill NVFF5.0)	1960084351N100	4
PCIe 6P+2P power cable for GPU card	N/A, Pre installed in the system	8

Optional Accessories

Part	Number Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00B1E	TPM Module
1700002204	Dual port USB cable (27 cm) with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1701090401	COM port cable with bracket
9680016858	Slide Rail
1960071739N100	Hold-down bar for Quadro/RTX/Titan GPU card
1992610020	Rubber for Quadro/RTX/Titan GPU card, to pair with hold-down bar, and one GPU card needs one pcs rubber
1960081603N111	LGA-3647 narrow CPU cooler for 4U chassis (205W)
1700027928-01	UL Power core (125V,15A)
1700027909-02	BSMI Power Core (125V,15A)
1702002605	EU Power Core (250V,10A)
1700035590-01	12V2x6 power cable (300W), CPU8P (M) to 16Pin (VT type)