

SKY-640V2

4U Rackmount Intel® Xeon® Scalable GPU Server, Supporting 4x PCIe x16 Double-Deck Cards Plus 3x PCIe x8 Single-Deck Cards



Features

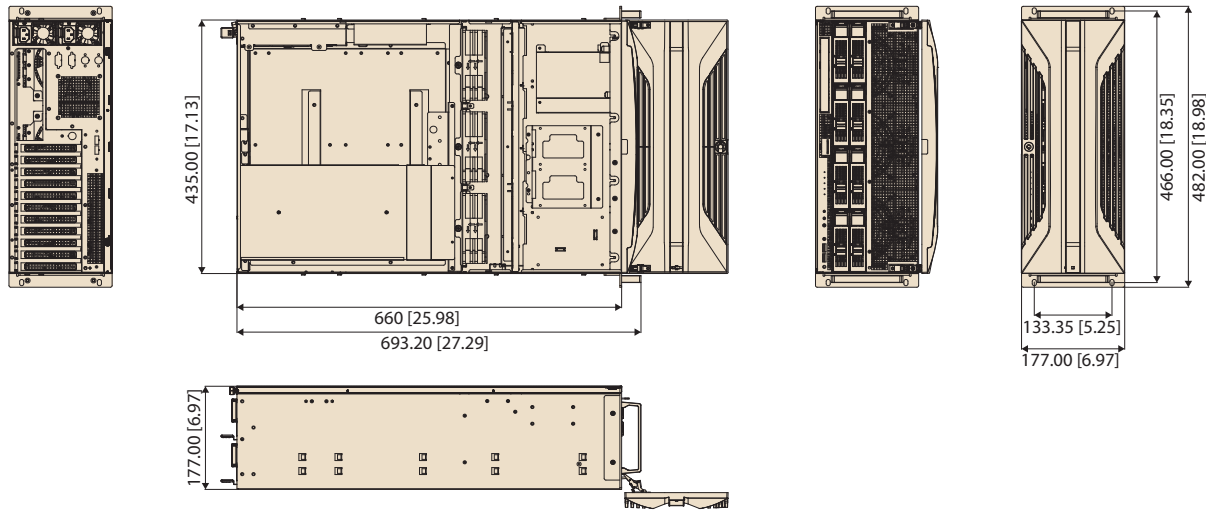
- Processor: Dual 3rd Gen. Intel® Xeon® scalable processors
- Memory: 16x DDR4 3200 MHz ECC RDIMM/LRDIMM / Intel® Optane™ support up to 2TB
- Remote Management: IPMI function support
- Expansion: Supporting 4 * PCIe x16 double-deck card + 2* PCIe x8 single-deck FH/HL card + 1*PCIe x8 card
- PSU: 2000W 1+1 redundant power supply with 80 PLUS Platinum level certification
- 3 x 12CM system fan with easy maintenance feature

Specifications

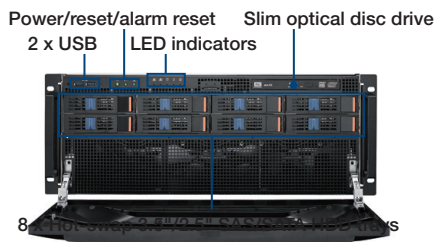
| | | | |
|--------------------------|-------------------------------|---|---------------------------|
| Processor System | Chipset | Intel® C621A chipset | |
| | CPU | Dual 3rd Gen. Intel® Xeon® Scalable processors (TDP up to 205W) | |
| | Memory type | 16x DDR4 3200 MHz ECC RDIMM/LRDIMM / Intel® Optane™ support up to 2TB | |
| Graphics | Controller | Aspeed AST 2500 | |
| | VRAM | 64 MB | |
| Expansion Slot | Total PCIe slots | 11 | |
| | Slot1 | PCIe x8 slot (Gen4 x8 link) | |
| | Slot2 | PCIe x8 slot (Gen x8 link) | |
| | Slot3 | PCIe x16 slot (Gen4 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion card | |
| | Slot4 | PCIe x8 slot (Gen4 x8 link) | |
| | Slot5 | PCIe x16 slot (Gen4 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion card | |
| | Slot6 | PCIe x8 slot (Gen4 x8 link) | |
| | Slot7 | PCIe x16 slot (Gen4 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion card | |
| | Slot8 | PCIe x8 slot (Gen4 x8 link) | |
| | Slot9 | PCIe x16 slot (Gen4 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion card | |
| | Slot10 | PCIe x8 slot (Gen4 x8 link) | |
| Slot11 | PCIe x8 slot (Gen4 x8 link) | | |
| Drive Bay | 2.5" (Internal) | 2 | |
| | 3.5" (Hot Swap) | 8 (support 2.5"/3.5" drive) | |
| Networking | Interface | Gbe/10Gbe LAN | |
| | Controller | 2 x Intel® I210AT / Intel® X550-AT2 (dual 10GbE ports) | |
| Front I/O Interface | USB | 2 x USB 3.2 Gen. 1 | |
| | USB | 2 x USB 3.2 Gen. 1 | |
| Rear I/O Interface | PS/2 | - | |
| | COM | 1 | |
| | Display | 1 x VGA | |
| | RJ-45 | 5 (1 port dedicated for IPMI function) | |
| Internal connector | USB | 6 x USB 3.2 Gen 1 ports (three onboard headers) + 1 x Type-A USB 3.2 Gen 1 port + 1 x Type-A USB 2.0 port | |
| | COM | 1 | |
| | LPC | 1 | |
| Watchdog Timer | Output | System reset | |
| | Interval | Programmable, 1~255 sec/min mode | |
| Power Supply | Power Output Wattage | 80 PLUS Platinum 2000W redundant Power Supply (Depends on input voltage) | |
| | Input Range | 1000W@100-127V _{AC} | |
| | | 1800W@200-219V _{AC} | |
| Cooling | Chassis Fan | 3 (12cm/238cfm) | |
| | Air Filter | - | |
| Miscellaneous | LED Indicators | LAN1, LAN2, HDD, Power, information | |
| | Remote Management | Advantech Remote Monitoring Utility | |
| Environment | Temperature | Operating | Non-Operating |
| | | 0 ~ 35° C (32 ~ 85° F) | -20 ~ 60° C (-4 ~ 140° F) |
| | Humidity | 95% @ 40° C | |
| | Vibration (5 ~ 500 Hz) | 0.75Grms | |
| | Shock | 10G (with 11ms duration, half sine wave) | |
| Physical Characteristics | Dimension (W x H x D) | 435 x 176 x 660mm (17.1" x 6.9" x 25.9") | |
| | Package Dimension (W x H x D) | 710 x 360 x 905mm (27.95" x 14.17" x 35.63") | |
| | Weight (N.W. / G.W.) | 34 Kg / 36 Kg | |

Dimensions

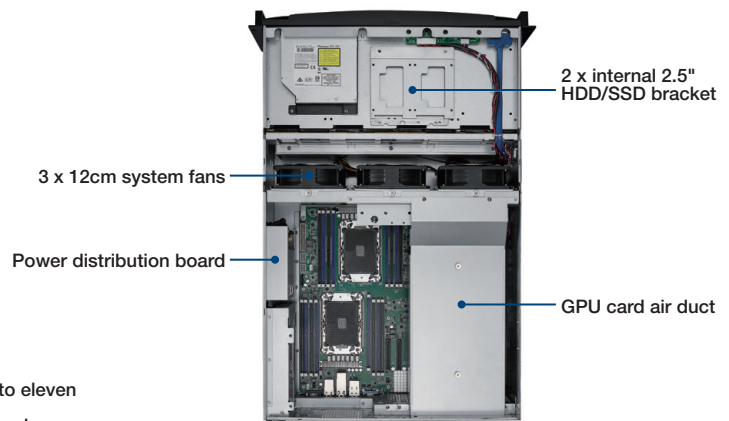
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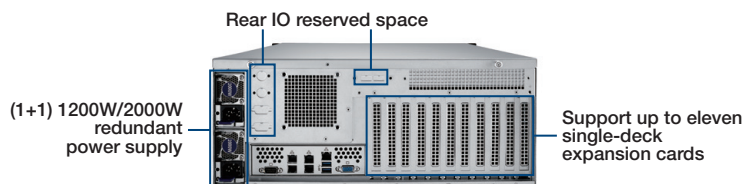
Front View



Inside View



Rear View



Ordering Information

| Part Number | HDD | M.2 2280 | VGA Chip | RJ45 | IPMI | Power supply |
|----------------|-----|--|----------|--|------|---------------|
| SKY-640-2R20A1 | 10 | 1 x M.2 2280 B+M key (SATA and PCIe) + 1 x M.2 2280 B+M key (PCIe) | AST 2500 | 5 (1 port dedicated for IPMI function) | YES | 1+1 2000W RPS |

Packing List

| Items | Advantech P/N | Quantity |
|--|----------------|----------|
| CPU Cooler | 1970004597T000 | 2 |
| RTX GPU card power cable (convert CPU power to PCIe power) | 1700029268-01 | 4 |
| GPU Extended Bracket | 1960094025N000 | 4 |
| cable clip for GPU power cable | 1990036006S000 | 5 |

Optional Accessories

| Part | Number Description |
|-----------------|---|
| PCA-AUDIO-HDB1E | HD Audio-card |
| PCA-TPM-00B1E | TPM 2.0 Module by LPC |
| 1700002204 | Dual port USB cable (27 cm) with bracket |
| 1700028024-01 | Dual port USB 3.2 Gen cable (45 cm/17.7") with bracket |
| 1701090401 | COM port cable with bracket |
| 9680016858 | Rail Kit |
| 1960094037N000 | Hold-down bar for GPU card power at north edge |
| 1992610020 | Rubber for GPU card power at north edge to pair with hold-down bar, and one GPU card needs one pcs rubber |
| 98R16402100 | External FAN for SKY-640V2 |