**Features**

- Processor: Dual 2nd Gen Intel® Xeon® Scalable Processors
- Memory: 24 x DDR4 2666MHz ECC RDIMM/LRDIMM / Intel Optane DC Persistent Memory, up to 6TB
- Remote Management: IPMI function support
- Expansion: Supporting 10 x PCIe x16 double-deck card with peer to peer feature + 1 x PCIe x16 single-deck FH/HL card + 1 x 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

**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 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

**Drive Bay**

- 2.5" (Internal)
- 3.5" (Front Accessible/Hot Swap)
- 12 (support 2.5"/3.5" drive)

**Ethernet Interface**

- 2 x 10GbE
- Controller: Intel X557-AT2

**Front I/O Interface**

- USB: 2 x USB 3.0
- PS/2: 2 (Optional)
- COM: 2 (Optional)
- Display: 1 x VGA
- RJ-45: 3 (1 is dedicate NIC for IPMI)

**Rear I/O Interface**

- USB: 4 x USB 3.0
- Display: 1 x HDMI
- COM: 2
- LPC: 2

**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: 100-127 V~ (Output: 1000W)
- 200-240V~ (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**

- Operating Temperature: 0 ~ 35° C (32 ~ 95° F)
- Non-Operating Temperature: -40 ~ 60° C (-4 ~ 140° F)
- Humidity: 95% @ 40° C
- Vibration (5 – 500 Hz): 0.25 Grms
- 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 450 x 1050 (26.96" x 15.74" x 41.33")
- Weight (N.W. / G.W.): 28kg / 41kg

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**All product specifications are subject to change without notice. Last updated: 25-Oct-2019**
Dimensions

Unit: mm [inch]

Front View

Inside View

Rear View

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HDD</th>
<th>M.2 2280</th>
<th>VGA Chip</th>
<th>RJ45</th>
<th>IPMI</th>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY-6420-R48A1</td>
<td>12</td>
<td>1</td>
<td>AST 2500</td>
<td>3</td>
<td>YES</td>
<td>3+1 4800W RPS</td>
</tr>
</tbody>
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System Contents

<table>
<thead>
<tr>
<th>Items</th>
<th>Advantech P/N</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Heatsink</td>
<td>196081155N101</td>
<td>2</td>
</tr>
<tr>
<td>CPU Clip for Heatsink</td>
<td>1651003167-01</td>
<td>2</td>
</tr>
<tr>
<td>Startup Manual</td>
<td>2041642000</td>
<td>1</td>
</tr>
<tr>
<td>GPU Extend Bracket</td>
<td>196087346N000</td>
<td>10</td>
</tr>
<tr>
<td>Air Block Bracket for Thermal Optimization</td>
<td>196088667N000</td>
<td>7</td>
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</table>

Optional Accessories

<table>
<thead>
<tr>
<th>Part</th>
<th>Number Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCA-TPM-00A1E</td>
<td>TPM Module</td>
</tr>
<tr>
<td>1700019414</td>
<td>COM port cable (1 port)</td>
</tr>
<tr>
<td>968AE00066</td>
<td>Slide Rail</td>
</tr>
<tr>
<td>1700024753-01</td>
<td>GPU Power cable for CPU 8P (15CM) For Tesla GPU card with CPU-8P connector</td>
</tr>
<tr>
<td>1700030122-01</td>
<td>GPU Power cable for PCIe 8P+8P (30CM) For Quadro/RTX/Titan GPU card with PCIe power connector</td>
</tr>
<tr>
<td>96CB-MSASH-MSASH-1</td>
<td>mSASH to mSASH 85cm for RAID card cable out at rear side</td>
</tr>
<tr>
<td>988R16420100</td>
<td>Internal heat-swappble FAN kit (Front)</td>
</tr>
<tr>
<td>988R16420200</td>
<td>Internal heat-swappble FAN kit (Rear)</td>
</tr>
<tr>
<td>988R16420300</td>
<td>External Optional FAN Kit (Left)</td>
</tr>
<tr>
<td>988R16420400</td>
<td>External Optional FAN Kit (Right)</td>
</tr>
<tr>
<td>988R16420500</td>
<td>Optional top cover for RTX/Titan GPU card. With this cover, system will exceed standard 4U height</td>
</tr>
</tbody>
</table>