Compute Series
X7000 - Intel

Professional Liquid Cooled Workstations
EK Fluid Works Compute Series workstations are designed for researchers and deep learning developers who demand the computing power typically reserved for rack-mount servers, but prefer a deskside solution.

Optimized for:
- Data Science
- Machine Learning & Deep Learning
- Scientific Computing

Quick Specs:
- Dual 2nd Gen Intel Xeon Scalable CPUs
- 1x to 5x GPUs
- 128 GB to 768 GB ECC Memory
- 2 x 1600W PSUs

Innovation Sets Us Apart

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Unrivaled Thermal Performance</td>
<td>Liquid Cooling Unleashes Performance and Longevity</td>
</tr>
<tr>
<td>Unmatched Flexibility</td>
<td>User Serviceable and Upgradeable</td>
</tr>
<tr>
<td>Unbeatable Acoustic Performance</td>
<td>Extreme Performance Without Noise Pollution</td>
</tr>
<tr>
<td>Undeniably Better ROI</td>
<td>Better than Air Cooled – Better than other Liquid Cooled</td>
</tr>
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Why Liquid Cooling?

Unparalleled Cooling Performance
Water is more effective at removing heat, resulting in lower sustained operating temperatures.

Quiet Operation
Larger fans move more air at lower speeds and are almost imperceptible under normal operation.

Greater Performance Output
Eliminating thermal throttling removes bottlenecks and increases performance output.

Increased Compute Density
Liquid cooled GPUs occupy less space, allowing 2x – 3x compute power in the same cubic footprint.

Longer Lifespan
Liquid cooling eliminates thermal fatigue, allowing components to stay cooler and last longer.

EK Cooling Solutions LLC  www.ekfluidworks.com  Mail: fwsales@ekwb.com  Phone: 210-888-1300
<table>
<thead>
<tr>
<th><strong>Motherboard</strong></th>
<th>ASRock Rack EP2C621D12 WS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chipset</td>
<td>C421</td>
</tr>
<tr>
<td>Socket</td>
<td>LGA 3647</td>
</tr>
<tr>
<td>PCIe Lanes per GPU</td>
<td>16</td>
</tr>
<tr>
<td>Multi-Threaded</td>
<td>Yes</td>
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</table>

<table>
<thead>
<tr>
<th><strong>CPUs</strong></th>
<th>Dual Intel Xeon Scalable</th>
<th>Silver 4216</th>
<th>Gold 6230</th>
<th>Platinum 8260</th>
<th>Platinum 8280</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Frequency [GHz] Base / Boost</td>
<td>2.1 / 3.2</td>
<td>2.1 / 3.9</td>
<td>2.4 / 3.9</td>
<td>2.7 / 4.0</td>
</tr>
<tr>
<td></td>
<td>Cores / Threads</td>
<td>16 / 32 (32 / 64 total)</td>
<td>20 / 40 (40 / 80 total)</td>
<td>24 / 48 (48 / 96 total)</td>
<td>28 / 56 (56 / 112 total)</td>
</tr>
<tr>
<td></td>
<td>Cooling</td>
<td>Liquid</td>
<td></td>
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</tbody>
</table>

| **Memory** | 128GB (4 x 32GB ECC), 256GB (8 x 32GB ECC), 512GB (8 x 64GB ECC), 768GB (12 x 64GB ECC) |
|            | DIMM Sockets            | 8 x DDR4     |
|            | Speed                   | 2666 / 2933 MHz |
|            | Error Correcting        | ECC          |

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<tr>
<th><strong>Expansion Slots</strong></th>
<th>5 x PCIe 3.0 x16</th>
</tr>
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<tr>
<th><strong>GPUs</strong></th>
<th>NVIDIA RTX A6000, Quadro RTX 8000, Quadro GV100, Tesla V100, A100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max GPUs</td>
<td>5</td>
</tr>
<tr>
<td>Cooling</td>
<td>Liquid</td>
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</tbody>
</table>

| **Storage** | 2x NVMe M.2 SSD / 8x SATA SSD or 6x SATA SSD + 1x ODD |
|             | Boot Drive | 1x NVMe M.2 SSD PCIe 3.0 x4 (1TB, 2TB) |
|             | Additional NVMe Storage | 1x NVMe M.2 SSD PCIe 3.0 x4 (1TB, 2TB) |
|             | Additional SATA Storage | 8x SATA III 2.5” SSD (1, 2, 4 or 8TB) |
|             | Optical Drive (ODD) | N/A |
|             | Optical Drive (ODD) | 1x DVD±RW or DVD±RW/Blu-ray |

| **Power Supply** | 2 x 1600 Watt Platinum |

| **I/O Ports** | Front I/O |
|               | Audio |
|               | 4 x USB (Type-A) |

| **I/O Ports** | Rear I/O |
|               | 2 x USB 3.2 Gen 1 |
|               | 4 x 10GbE LAN |
|               | 1 x IPMI LAN |

| **Cooling** | CPU & GPU: EK custom liquid cooling, Case: Forced air |
|             | 2 x pumps |
|             | 2 x reservoirs |
|             | 2 x 120mm x 480mm radiators |
|             | 8 x 120mm fans |
|             | Quick Disconnect Couplings (QDC) |
|             | xenowulf Smart Pump/Fan Controller |

<table>
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<tr>
<th><strong>Case</strong></th>
<th>EK-C232 Design</th>
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<tbody>
<tr>
<td></td>
<td>Dimensions: W x H x D (in) 15.6 x 23.5 x 25</td>
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<tr>
<td></td>
<td>Dimensions: W x H x D (cm) 39.6 x 59.2 x 63.5</td>
</tr>
</tbody>
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| **Warranty** | Standard 1 year from ship date |