DS Pro - Data Science Workstation

Data is fundamentally changing the way companies do business, driving demand for data scientists and increasing the complexity in their workflows. Workstations are the crucible where VR and AI models take shape for the next generation applications. Get the performance you need to transform massive amounts of data into insights and create amazing customer experiences with OSS NVIDIA-powered workstations for data science. The DS Pro is an NGC Ready System that combines the power of two Quadro® RTX™ GPUs with NVLink™ and accelerated CUDA-X AI data science software to deliver a new breed of fully integrated workstations for data science.

Features
- Up to two NVIDIA® Quadro® RTX™ 6000 or 8000 GPUs
- Intel® Xeon®-W up to 4GHz, 18 Core CPU
- Up to 2TB DDR4-2933MHz server memory
- 2x 3.5”, 4x 2.5” SATA3 and M.2 PCIe storage
- Tensorflow, RAPIDS, Docker, Caffe2 and Pytorch software pre-installed
- NVIDIA® NGC Ready System

Specifications

<table>
<thead>
<tr>
<th>Dimensions:</th>
<th>18” H x 8.75” W x 18” D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45.7 x 22.2 x 45.7 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPUs:</th>
<th>Single Intel® Xeon® Scalable Processors up to 165W TDP and 18 cores, LGA2066</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to Xeon W-2195, 2.3/4.3GHz, 18-core 24MB Cache</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Memory</th>
<th>Up to 1TB DDR4-2666MHz ECC LRDIMM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to 512GB DDR4-2933MHz ECC RDIMM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inference GPUs</th>
<th>Up to 2x NVIDIA® RTX8000 Turing Architecture GPUs with NVLINK HB Bridge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>84 trillion Ray Tracing RTX-OPS per GPU</td>
</tr>
<tr>
<td></td>
<td>11 Giga Rays/Sec</td>
</tr>
<tr>
<td></td>
<td>72 RT Cores, 576 Tensor Cores, 4,608 CUDA Cores</td>
</tr>
<tr>
<td></td>
<td>48 GB GDDR6 ECC Memory</td>
</tr>
<tr>
<td></td>
<td>4x DP 1.4, 1x VirtualLink Ports</td>
</tr>
<tr>
<td>or Up to 2x NVIDIA® RTX6000 Turing Architecture GPUs with NVLINK HB Bridge</td>
<td></td>
</tr>
<tr>
<td></td>
<td>84 trillion Ray Tracing RTX-OPS per GPU</td>
</tr>
<tr>
<td></td>
<td>10 Giga Rays/Sec</td>
</tr>
<tr>
<td></td>
<td>72 RT Cores, 576 Tensor Cores, 4,608 CUDA Cores</td>
</tr>
<tr>
<td></td>
<td>24 GB GDDR6 ECC Memory</td>
</tr>
<tr>
<td></td>
<td>4x DP 1.4, 1x VirtualLink Ports</td>
</tr>
</tbody>
</table>
**PCleSlots:**
1 x PCIe 3.0 x16
1 x PCIe 3.0 x8 (in x16)
3 x PCIe 3.0 x8
1 x PCIe 3.0 x4 (in x8)
1x PCIe3.0 x4 M.2 slot for 2280 and 22110 SSDs

**StorageSubsystem:**
4 x NVMe U.2 SSD up to 6.4TB or SATA 2.5" SSD up to 4TB each drive
2 x SATA 3.5" 7200 RPM up to 10TB each drive
1x M.2 x4 and 2x SATA-DOM internal drive connections
Further expansion up to 4PB possible using OSS JBOD expansion systems

**Network Controllers:**
2x 1Gigabit Ethernet each with an RJ45
Additional 10, 25, 40 and 100Gb Ethernet or 100Gb Infiniband interfaces available

**OS/Software:**
Windows 10 Pro 64-bit or Ubuntu 18.04 pre-installed
NVIDIA RAPIDS machine learning libraries
NVIDIA GPU Cloud (NGC) containerized software stacks for AI including TensorFlow, PyTorch and Caffe2
NVIDIA Docker and Docker Runtime

**Input/Output:**
1 VGA port, 2 COM ports (1 rear and 1 internal header)
5 USB 3.0 with 2 on rear, 2 on front and 1 Type A internal, 6 USB 2.0 with 2 on rear and 2 internal

**Power Supply**
System: W Typical with 90-264VAC, 47-63Hz Input
- 80plus Platinum efficiency with Active PFC, PM Bus and Over Voltage Protection
- Max 15A input current at 115VAC and 7.5A at 230VAC

**Environment:**
Operating:
- 5°C to 35°C (41°F to 95°F) at 0 to 95% (3,000ft) altitude
- 5% to 90% non-condensing relative humidity, max dew point 21°C, max rate of change 5°C/hr

Non-Operating:
- -20°C to 60°C (-40°F to 140°F)
- 5% to 90% non-condensing relative humidity, max dew point 27°C, max rate of change 5°C/hr

**Agency:**
Tested to conform to the following standards:
- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, Issue 4, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1
- IEC 60950-1 (CB Certificate and CB Test Report)
- CE Mark (EN55022 Class A, EN60950-1, EN55024, EN61000-3-2, EN61000-3-3)
- CISPR 22, Class A
- Designed to meet other country agency requirements.

**Compliance:**
RoHS 10, WEEE

Specifications subject to change without notice