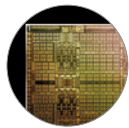


RTX A6000



NVIDIA AMPERE

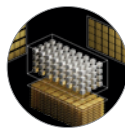
BJ-8-5 FHL

5a dYfy

BJ-8-5 FHL

5

BJ-8-5 5a dYfy
FHL



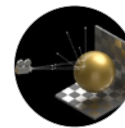
3 TENSOR

HYbgcf: 'cUh' & 'H&)

5=

HYbgcf & 8@GG 5=

5=を用いた
をさらに加速します。



第2世代 RT コア

With up to 2X the throughput over the previous generation and the ability to concurrently run ray tracing with either shading or denoising capabilities, second-generation RT Cores deliver massive speedups for workloads like photorealistic rendering of movie content and virtual prototyping of product designs. This technology also speeds up the rendering of ray-traced motion blur for faster results with greater visual accuracy.



THIRD-GENERATION
NVLINK

Third-generation NVIDIA NVLink® technology enables users to connect two GPUs together to share GPU performance and memory. With up to 112 gigabytes per second (GB/s) of bidirectional bandwidth and combined graphics memory of up to 96 GB, professionals can tackle the largest rendering, AI, virtual reality, and visual computing workloads. The new NVLink connector also features a shorter Z height, which enables NVLink functionality in a wider range of chassis.



NVIDIA AMPERE
ARCHITECTURE-BASED
CUDA CORES

The NVIDIA Ampere architecture's CUDA® cores bring double-speed processing for single-precision floating point (FP32) operations and are up to 2X more power efficient than Turing GPUs. This provides significant performance gains for graphics workflows like 3D model development and compute workflows like desktop simulation for computer-aided engineering (CAE).



PCI EXPRESS GEN 4.0

NVIDIA Ampere architecture-based GPUs support PCI Express Gen 4.0 (PCIe Gen 4.0), which provides 2X the bandwidth of PCIe Gen 3.0. This improves data transfer speeds from CPU memory for data-intensive tasks such as AI and data science. Faster PCIe performance also accelerates GPU direct memory access (DMA) transfers, enabling faster video data transfers from GPUDirect® for video-enabled devices and faster input/output (I/O) with GPUDirect Storage.

Features

- > PCI Express Gen 4
- > Four DisplayPort 1.4a connectors
- > AV1 decode support
- > DisplayPort with audio
- > VGA support⁴
- > 3D stereo support with stereo connector
- > NVIDIA GPUDirect® for Video support
- > NVIDIA virtual GPU (vGPU) software support
- > NVIDIA Quadro® Sync II⁵ compatibility
- > NVIDIA Quadro Experience™
- > Desktop Management Software
- > NVIDIA RTX IO support
- > HDCP 2.2 support
- > NVIDIA Mosaic⁶ technology

To learn more about the NVIDIA RTX A6000, visit www.nvidia.com/rtx-a6000

1 Tests run on workstation with 1x Xeon Gold 6154, 3GHz (3.7GHz Turbo), Win10 x 64, NVIDIA driver version 460.48. SPECviewperf 2020, energy substest. | 2 Tests run on workstation with 2x Xeon Gold 6126, 2.6GHz (3.7GHz Turbo), Win10 x 64, NVIDIA driver version 456.37. Autodesk VRED 221.0 GA Release. | 3 Tests run on workstation with AMD Ryzen 3900X, 3.8GHz, 4.6 Turbo, NVIDIA driver 460.17, BERT pre-training throughput using Pytorch, phase 1 sequence length 128, RTX 6000 using FP32 precision, RTX A6000 using TF32 precision. | 4 Via adapter/connector/bracket. | 5 Quadro Sync II card sold separately. | 6 Windows 7, 8, 8.1, 10, and Linux. | 7 Peak rates based on GPU Boost Clock. | 8 Effective teraFLOPS (TFLOPS) using the new sparsity feature. | 9 Display ports are on by default for Quadro RTX A6000. Display ports are not active when using vGPU software. | 10 GPU supports DX 12.0 API, hardware feature level 12 + 1. | 11 Product is based on a published Khronos specification and is expected to pass the Khronos conformance testing process when available. Current conformance status can be found at www.khronos.org/conformance. | 12 NVIDIA NVLink sold separately.

