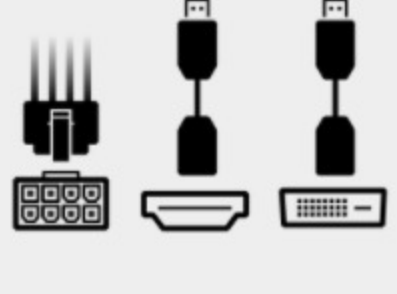


NVIDIA RTX A6000

NVIDIA RTX A6000

SKU: VCNRTXA6000-PB

Where to Buy Commercial Sales



Description Features Specifications

NVIDIA RTX A6000

SPECIFICATIONS

Compatible in all systems that accept an NVIDIA RTX A6000

Architecture	NVIDIA Ampere Architecture
Process Size	8nm
Transistors	28.3 Billion
Die Size	628.4 mm
CUDA Cores	10752
Tensor Cores	336
RT Cores	84
Single Precision Performance	38.7 TFLOPS
RT Core Performance	75.6 TFLOPS
Tensor Performance	309.7 TFLOPS
GPU Memory	48 GB GDDR6 with ECC
Memory Interface	384-bit
Memory Bandwidth	768 GB/sec
Display Connectors	4x DisplayPort 1.4a
NVENC NVDEC	1x 2x (+ AV1 decode)
System Interface	PCI Express 4.0 x16
Form Factor	4.4" H x 10.5" L Dual Slot
Thermal Solution	Active Fansink
Maximum Power Consumption	300 W NVIDIA Quadro and RTX Power Guidelines
Power Connector	1x 8-pin CPU
Max Digital Resolution	7680 x 4320 x36 bpp at 60 Hz NVIDIA Quadro and RTX Display Resolution Support
vGPU Software Support	NVIDIA GRID, NVIDIA Virtual Data Center Workstation, NVIDIA Virtual Compute Server
vGPU Profiles Supported	1 GB, 2 GB, 3 GB, 4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 24 GB, 48 GB
NVIDIA 3D Vision and 3D Vision Pro	Support via 3-pin mini DIN
Frame Lock	Compatible with NVIDIA Quadro Sync II
NVLink	2-way low profile (2-slot and 3-slot bridges) connects 2x NVIDIA RTX A6000
NVLink Interconnect	112.5 GB/sec bidirectional

AVAILABLE ACCESSORIES

- RTXA6000NVLINK-KIT provides an NVLink connector for the RTX A6000 suitable for standard PCIe slot spacing motherboards, effectively fusing two physical boards into one logical entity with 21504 CUDA Cores, 672 Tensor Cores, 168 RT Cores, and 96 GB of GDDR6 ECC memory, with a bandwidth of 100 GB/Sec. Order PN RTXA6000NVLINK-KIT when ultimate performance and capabilities are required with two RTX A6000 boards (application support required).
- RTXA6000NVLINK-3S-KIT offers an NVLink connector for the RTX A6000 compatible with motherboards featuring wider PCIe slot spacing. All other features and benefits are identical to the standard slot spacing version.
- DP-HDMI-THREE-PCK connects the NVIDIA RTX A6000 to HDMI displays at resolutions up to 4K with PNY Part Number DP-HDMI-THREE-PCK. The three included DisplayPort to HDMI adapters are recommended by NVIDIA, provide outstanding image quality, and are built to professional standards.
- DP-HDMI-SINGLE-PCK connect the NVIDIA RTX A6000 to an HDMI display at resolutions up to 4K with PNY Part Number DP-HDMI-SINGLE-PCK. The included DisplayPort to HDMI adapter is recommended by NVIDIA, provides outstanding image quality, and is built to professional standards.

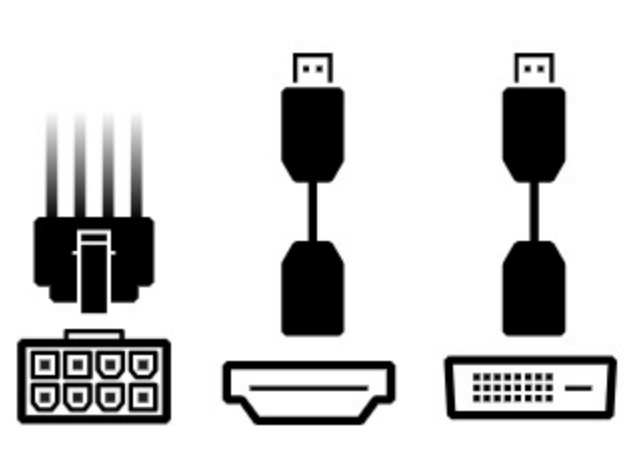
SUPPORTED PLATFORMS

- Microsoft Windows 10 (64-bit)
- Red Hat Enterprise Linux 7.x
- SUSE Linux Enterprise Desktop 15.x
- OpenSuse 15
- Fedora 31
- Ubuntu 18.04
- FreeBSD 11.x
- Solaris 11

MINIMUM SYSTEM HARDWARE REQUIREMENTS

- Intel Core i5, i7, i9, or Xeon processor or later
- AMD Ryzen or Epyc class processor or later
- PCI Express 4.0 x16 (preferred) expansion slot
- System memory greater than or equal to GPU memory, twice the GPU memory recommended
- Internet connection for driver installation
- DisplayPort 1.4a (preferred), HDMI, or DVI compatible display(s)

PACKAGE CONTAINS



- NVIDIA RTX A6000 professional graphics card
- NVIDIA RTX Quick Start Guide
- NVIDIA Quadro Support Guide
- DisplayPort to DVI-D SL adapter
- Auxiliary power cable