# NVIDIA® RTX™ A6000

## SPECIFICATIONS

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| **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 |
| **Power Connector** | 1x 8-pin CPU |
| **Max Digital Resolution** | 7680 x 4320 x36 bpp at 60 Hz |
| **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 |