NVIDIA® T1000

NVIDIA ® T1000

SKU: VCNT1000-PB

Description | Features | Specifications

NVIDIA T1000

SPECIFICATIONS

Compatible in all systems that accept an NVIDIA T1000

CUDA Cores	896
GPU Memory	4 GB GDDR6
Peak FP32 Performance	2.50 TFLOPS
Memory Interface	128-bit
Memory Bandwidth	160 GB/s
Max Power Consumption	50 W
System Interface	PCI Express 3.0 x16
Display Connectors	4x mDP
Max Digital Resolution	7680 x 4320 at 60 Hz
Max Displays	4x at 5K | 5120 x 2880 at 60 Hz
HDR Support	Yes
Quad Buffered Stereo	Yes
NVENC | NVDEC	2x H.264 and HVEC Encoders 1x Decode Engine
Form Factor	Low-Profile Single Slot
Thermal Solution	Active Fansink

3D GRAPHICS ARCHITECTURE

- Scalable geometry architecture
- Hardware tessellation engine
- NVIDIA GigaThread engine with 3 async copy engines
- Shader Model 5.1 (OpenGL 4.5 and DirectX 12)
- Up to 32K x 32K texture and render processing
- Transparent multisampling and super sampling
- 16x angle independent anisotropic filtering
- 32-bit per-component floating point texture filtering and blending
- 64x full scene antialiasing (FSAA)
- Decode acceleration for MPEG-2, MPEG-4 Part 2 Advanced Simple Profile, H.264, HEVC, MVC, VC1, DivX (version 3.11 and later), and Flash (10.1 and later)
- Dedicated H.264 and HEVC Encoder
- Blu-ray dual-stream hardware acceleration (supporting HD picture-in-picture playback)
- NVIDIA GPU Boost (automatically improves GPU engine throughput to maximize application performance)

NVIDIA CUDA PARALLEL PROCESSING ARCHITECTURE

- SMM architecture (NVIDIA Turing streaming multi-processor design that delivers greater processing and efficiency)
- Dynamic Parallelism (GPU dynamically spawns new threads without going back to the CPU)
- API support includes: CUDA C, CUDA C++, DirectCompute 5.0, OpenCL, Java, Python, and Fortran
- 96 KB of RAM (dedicated shared memory per SM)

ADVANCED DISPLAY FEATURES

- Support for any combination of four connected displays
- Four DisplayPort 1.4 outputs (supporting resolutions such as 3840 x 2160 at 120 Hz and 5120 x 2880 at 60 Hz)
- HDR support over DisplayPort 1.4 (SMPTE 2084/2086, BT. 2020) (4K at 60 Hz 10b/12b HEVC Decode, 4K at 60 Hz 10b HEVC Encode)
- HDCP 2.2 support over DisplayPort, DVI, and HDMI adapters
- 12-bit internal display pipeline (hardware support for 12-bit scanout on supported panels, applications, and connection)
- Full OpenGL quad buffered stereo support
- Underscan/overscan compensation and hardware scaling
- NVIDIA RTX Desktop Manager
- Support for Nvidia Mosaic

DISPLAYPORT AND HDMI DIGITAL AUDIO

- Support for the following audio modes: Dolby Digital (AC3), DTS 5.1, Multi-channel (7.1) LPCM, Dolby Digital Plus (DD+), and MPEG-2/MPEG-4 AAC
- Data rates of 44.1 KHz, 48 KHz, 88.2 KHz, 96 KHz, 176 KHz, and 192 KHz
- Word sizes of 16-bit, 20-bit, and 24-bit
- The mini-DisplayPort connectors are designed with a custom retention mechanism to firmly secure its connection with the display cable.

AVAILABLE ACCESSORIES

- **DP-HDMI-THREE-PCK** connects the NVIDIA T1000 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 T1000 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.

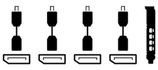
SUPPORTED PLATFORMS

- 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 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 T1000 professional graphics card
- Attached low-profile (SFF) bracket
- Unattached full-height (ATX) bracket
- NVIDIA Turing Quick Start Guide
- NVIDIA Turing Support Guide
- 4x mDP to DisplayPort adapters

Related Products

CS3140 M.2 NVMe SSD

CS900 2.5" SATA III SSD

XLR8 Gaming EPIC-X RGB™ 3600MHz Desktop Memory

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