



GeForce RTX™ 2080 8GB XLR8 Gaming Overclocked Edition



Up to 6X Faster Performance

Experience 6X the performance of previous-generation graphics cards combined with maximum power efficiency.



Real-Time Ray Tracing in Games

GeForce RTX™ 2080 is light years ahead of other cards, delivering truly unique real-time ray-tracing technologies for cutting-edge, hyper-realistic graphics.



Latest AI Enhanced Graphics

Powered by NVIDIA Turing, GeForce™ RTX 2080 brings the power of AI to games.

GRAPHICS REINVENTED

The GeForce RTX™ 2080 is powered by the all-new NVIDIA Turing™ architecture to give you incredible new levels of gaming realism, speed, power efficiency, and immersion. This is graphics reinvented.

GeForce® RTX graphics cards are powered by the Turing GPU architecture and the all-new RTX platform. This gives you up to 6x the performance of previous-generation graphics cards and brings the power of real-time ray tracing and AI to your favorite games.

When it comes to next-gen gaming, it's all about realism. GeForce RTX 2080 is light years ahead of other cards, delivering truly unique real-time ray-tracing technologies for cutting-edge, hyper-realistic graphics.

PRODUCT SPECIFICATIONS

NVIDIA® CUDA Cores	2944
Clock Speed	1515 MHz
Boost Speed	1815 MHz
Memory Speed (Gbps)	14
Memory Size	8GB GDDR6
Memory Interface	256-bit
Memory Bandwidth (Gbps)	448
TDP	225 W ⁵
NVLink	2-way
Outputs	DisplayPort 1.4 (x3), HDMI 2.0b, USB Type-C
Multi-Screen	Yes
Resolution	7680 x 4320 @60Hz (Digital) ¹
Power Input	One 6-Pin, One 8-Pin
Bus Type	PCI-Express 3.0 x16

PRODUCT INFORMATION

PNY Part Number	VCG20808DFPPB-O
UPC Code	751492621746
Card Dimensions	1.38" x 11.50" x 4.50"; Dual-Slot
Box Dimensions	14.68" x 3.78" x 8.35"

- 1 7680 x 4320 @60Hz RGB8-bit with dual DisplayPort connectors or 7680 x 4320 @60Hz YUV420 8-bit with DisplayPort 1.3 connector.
- 2 Recommendation is made based on PC configured with an Intel Core i7 3.2 GHz processor. Pre-built system may require less power depending on system configuration.
- 3 Graphics Card driver is not included in the box; GeForce Experience will download the latest GeForce driver from the Internet after install.
- 4 In preparation for the emerging VirtualLink standard, Turing GPUs have implemented hardware support according to the "VirtualLink Advance Overview".
- 5 Advertised TDP does not include the additional up to 35 watts required when Type-C port is in use. TDP increases by up to 35 watts when Type-C port is being utilized for VirtualLink™.

KEY FEATURES

- Real-Time Ray Tracing
- NVIDIA® GeForce Experience™
- NVIDIA® Ansel
- NVIDIA® Highlights
- NVIDIA® G-SYNC™ Compatible
- Game Ready Drivers
- Microsoft® DirectX® 12 API, Vulkan API, OpenGL 4/5
- DisplayPort 1.4 (x3), HDMI 2.0b, DVI-D, USB Type-C
- Designed for USB Type-C™ and VirtualLink™⁴
- HDCP 2.2
- NVIDIA® GPU Boost™
- NVIDIA® NVLink (NVIDIA SLI)
- VR Ready

SYSTEM REQUIREMENTS

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- One 6-pin and one 8-pin supplementary power connectors
- 650 W or greater system power supply²
- 1.5GB available hard-disk space
- 8GB system memory (16GB or higher recommended)
- Microsoft Windows 10 (April 2018 Update or later), Windows 7 64-bit, Linux 64-bit
- Internet connection³



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