



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 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.

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™
- 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 supply>2
- 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 connection>3

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 W⁵
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	VCG20808TFPPB-O
UPC Code	751492621753
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™.



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