

Blow Them Away

ASUS Innovations

NV Features

- **NVIDIA Ampere Streaming Multiprocessors**
The building blocks for the world's fastest, most efficient GPU, the all-new Ampere SM brings 2X the FP32 throughput and improved power efficiency.
- **2nd Generation RT Cores**
Experience 2X the throughput of 1st gen RT Cores, plus concurrent RT and shading for a whole new level of ray tracing performance.
- **3rd Generation Tensor Cores**
Get up to 2X the throughput with structural sparsity and advanced AI algorithms such as DLSS. Now with support for up to 8K resolution, these cores deliver a massive boost in game performance and all-new AI capabilities.



Redesigned Shroud

A redesigned shroud incorporates angles on all edges for optimized airflow



Dual Ball Fan Bearings

Different bearing types have unique pros and cons. Ball bearings excel at durability and can last up to twice as long as sleeve bearing designs.



Streamlined Cable Management

The power supply connectors are located on the far side of the card, helping tidy up cable management for a variety of chassis.



144-hour Validation Program

A series of stringent tests ensure compatibility with the latest games.

**144-hour
Validation Program**

Auto-Extreme Technology

An automated manufacturing process that enhances reliability.



Software Suite

Tweak performance with GPU Tweak II, stream games with XSplit Gamecaster, get a better connection to game servers with wtfast, and earn passive income with Quantumcloud.



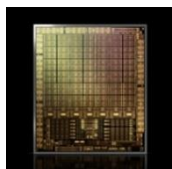
ASUS Features

12GB GDDR6X
Memory

12GB GDDR6X Memory:

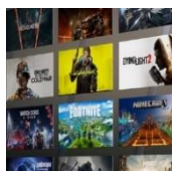
On-board memory for the best gaming experience
& the best resolution.

NV Features



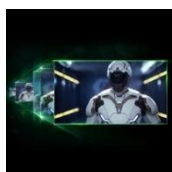
NVIDIA AMPERE ARCHITECTURE

The all-new NVIDIA Ampere architecture delivers the ultimate play, featuring advanced 2nd generation Ray Tracing Cores and 3rd generation Tensor Cores with greater throughput.



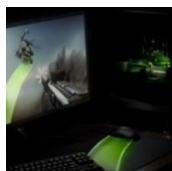
RTX. IT'S ON.

Experience today's biggest blockbusters like never before with the visual fidelity of real-time ray tracing and the ultimate performance of AI-powered DLSS



DLSS AI ACCELERATION

NVIDIA DLSS is groundbreaking AI rendering that boosts frame rates with uncompromised image quality using the dedicated AI processing Tensor Cores on GeForce RTX. This gives you the performance headroom to crank up settings and resolutions for an incredible visual experience. The AI revolution has come to gaming.



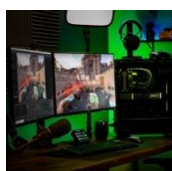
VICTORY MEASURED IN MILLISECONDS

NVIDIA Reflex delivers the ultimate competitive advantage. The lowest latency. The best responsiveness. Powered by GeForce RTX 30 Series GPUs and NVIDIA® G-SYNC® monitors. Acquire targets faster, react quicker, and increase aim precision through a revolutionary suite of technologies to measure and optimize system latency for competitive games.



UP YOUR CREATIVE GAME

Take your creative projects to a new level with GeForce RTX 30 Series GPUs. Delivering AI-acceleration in top creative apps. Backed by the NVIDIA Studio platform of dedicated drivers and exclusive tools. And built to perform in record time. Whether you're rendering complex 3D scenes, editing 8K video, or livestreaming with the best encoding and image quality, GeForce RTX GPUs give you the performance to create your best.



STREAM LIKE A BOSS

Steal the show with incredible graphics and smooth, stutter-free live streaming. Next-generation hardware encoding and decoding combine to show off all your best moments in exquisite detail. And the all-new NVIDIA Broadcast app gives you powerful AI capabilities to improve audio and video quality with effects like virtual background, webcam auto frame, and microphone noise removal. So you can give your audience your best—every time.



DIRECTX 12 ULTIMATE

Developers can now add even more amazing graphics effects to Microsoft Windows-based PC games. GeForce RTX graphics cards deliver advanced DX12 features like ray tracing and variable rate shading, bringing games to life with ultra-realistic visual effects and faster frame rates.

Specifications

Model Name	TURBO-RTX3080TI-12G
Graphics Engine	NVIDIA® GeForce RTX™ 3080 Ti
CUDA Cores	10240
OpenGL®	OpenGL® 4.6
Engine Clock	OC mode : 1695 MHz (Boost Clock) Gaming mode : 1665 MHz (Boost Clock)
Memory Interface	384 bit
Video Memory	12GB GDDR6X
Memory Clock	19 Gbps
Power Connector	2 x 8-pin
I/O	1 x Native HDMI 2.1 3 x Native DisplayPort 1.4a
HDCP Compliant	HDCP 2.3
Digital Max. Resolution	7680 x 4320
Maximum Display Support	4
NVLink/Crossfire Support	N/A
Recommended PSU	850 W
Bus Standard	PCIe 4.0
Package Contents	N/A
Software Bundled	ASUS GPU Tweak II & GeForce Game Ready Driver & Studio Driver: please download all software from the support site.
Slot	2 slot
Dimension	
Card Size (mm/inch)	26.8 x 11.3 x 3.9 cm 10.54 x 4.45 x 1.53 inches
Color Box (mm)	N/A
Weight	
Single Card (KG)	1.19 KG
Product Weight (with packing) (KG)	N/A
Note	<p>* Our wattage recommendation is based on a fully overclocked GPU and CPU system configuration. For a more tailored suggestion, please use the “Choose By Wattage” feature on our PSU product page: https://rog.asus.com/event/PSU/ASUS-Power-Supply-Units/index.html</p> <p>* All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets. If you do not use the latest and current specifications of ASUS products, you shall be liable for all loss and damage claimed by third party to ASUS based on false advertising or any other issues caused from using false specifications of ASUS products.</p>

