

TUF-RTX3060-O12G-V2-GAMING

BUILT TUF

ASUS Innovations

NV Features

- NVIDIA Ampere Streaming Multiprocessors
 The building blocks for the world's fastest, most efficient GPUs, 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.
- Get up to 2X the throughput with structural sparsity and advanced AI algorithms such as DLSS. These cores deliver a massive boost in game performance and all-new AI capabilities.



Fresh Shroud

A new all-aluminum shroud adds a robust flair to TUF builds. The top-side RGB element can be customized with Armoury Crate to sync up with other ASUS components to enable uniform lighting.

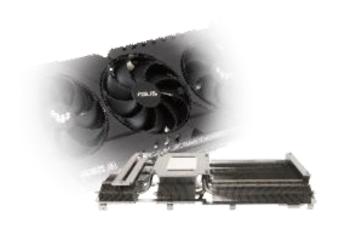






Cooling

A MaxContact heat spreader efficiently transfers heat into a new 2.7-slot heatsink. On top, three Axial-tech fans work in tandem to drive air through the entire array, helping to keep temperature under tight control.





Axial-Tech Upgrades

TUF Gaming cards leverage our tried-and-true Axialtech fan design, with three fans working in tandem to satisfy the thermal demands of NVIDIA's new high-octane design. The fans rely on dual ball fan bearings to ensure consistent performance and increased longevity compared to sleeve bearings and other bearing types.

It's Cooler Out Back

Most of the rear is swathed in a protective metal backplate that prominently features a wide vent. The vent allows hot air to escape towards chassis exhaust fans instead of being recycled back into the cooler. Stainless steel is used for the I/O bracket to protect ports and provide a more secure mount. A conveniently placed Dual Bios switch allows customization of the card's default performance profile without software.



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.



New Directions

The two side fans spin counterclockwise to reduce turbulence. And to eliminate unnecessary noise, a stop mode halts all fans when the GPU temp falls below 50 degrees and power consumption is low.



TUF Components

Dual ball fan bearings that stand up to tough conditions more readily than other bearing types and top-shelf capacitors that pass military-grade certification team up to boost product longevity.







ASUS Features

I/O Specifications



OC edition

1882 MHz GPU boost clock in OC mode for outstanding gaming experience.



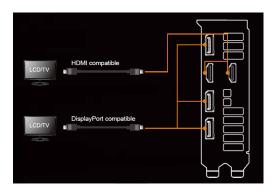
12GB GDDR6 Memory

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



OdB Technology

An advanced controller brings fans to a standstill below 50 Celsius, letting you enjoy light gaming in relative silence.



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 Al-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 Al-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	TUF-RTX3060-O12G-V2-GAMING
Graphics Engine	NVIDIA GeForce RTX™ 3060
CUDA cores	3584
OpenGL [®]	OpenGL® 4.6
Engine Clock	OC Mode : 1882 MHz (Boost Clock)
	Gaming Mode : 1852 MHz (Boost Clock)
Memory Interface	192-bit
Video Memory	12GB GDDR6
Memory Clock	15 Gbps
Power Connector	1 x 8-pin
I/O	2 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	650 W
Bus Standard	PCIE 4.0
Package Contents	1 x TUF Certificate of Reliability
	1 x Collection Card
	1 x Speedsetup Manual
Software Bundled	ASUS GPU Tweak II & GeForce Game Ready Driver & Studio Driver
	(Please download all software from the support site.)
Slot	2.7 slot
Dimension	
Card Size (mm/inch)	301 x 143 x 54 mm
	11.81 x 5.63 x 2.13 inches
Color Box (mm)	405 x 233 x 88.5 mm
Weight	
Single Card (KG)	1.093 KG
Product Weight	1.7 KG
(with packing) (KG)	
Notes	* 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
	* 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.









