TUF-RTX4090-O24G-OG-GAMING

BUILT TUF

ASUS innovations

The Ultimate Platform for Gamers and Creators
Powered by GeForce RTX 40 Series

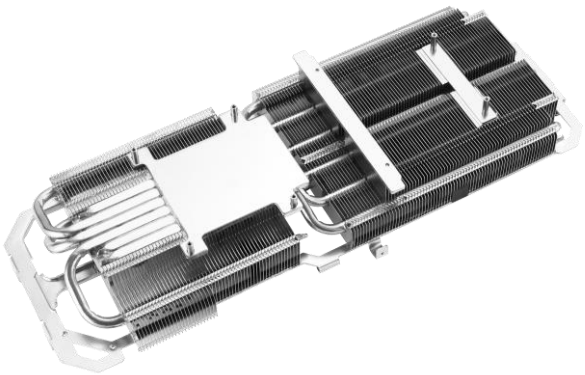
Powered by NVIDIA DLSS3, ultra-efficient Ada Lovelace arch, and full ray tracing.

4th Generation Tensor Cores: Up to 4x performance with DLSS 3 vs. brute-force rendering

3rd Generation RT Cores: Up to 2X ray tracing performance

■ Cooling

A MaxContact heat spreader efficiently transfers heat into a new 3.2-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.



■ Rigid Structure

A new all-aluminum shroud adds a robust flair to TUF builds and is accompanied by a metal backplate, helping reduce PCB flex and keep sensitive components safe.

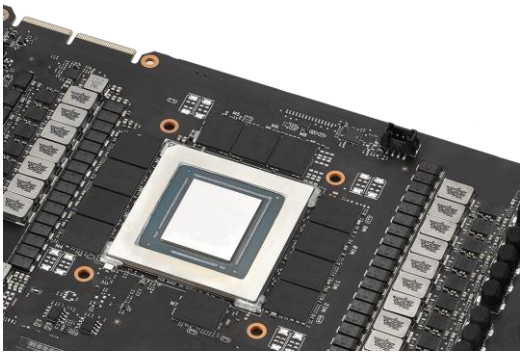
TUF GAMING

Durability

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. These components are soldered to the PCB using an Auto-Extreme automated manufacturing process, ensuring accurate placement and a perfect joint every time.

Software

Hardware and software come together to let you fully customize your experience and get the most out of your graphics card. GPU Tweak II allows for hardware tweaking and monitoring, and QuantumCloud utilizes your spare GPU computing power to generate passive income.



ASUS Features

24 GDDR6X GB Memory

24GB GDDR6X Memory: On-board memory for the best gaming experience & the best resolution.

OC Edition

OC Edition:
2595 MHz GPU boost clock in OC mode for outstanding gaming experience.

NV Features

8K HDR GAMING
Connect, play, capture, and watch in brilliant HDR at resolutions up to 8K with GeForce RTX 3090 or RTX 3090 Ti. Capture up to 8K HDR footage with the GeForce Experience™ ShadowPlay™ feature and play back smoothly with AV1 decode.

Virtual Reality
The highest performance graphics deliver the smoothest, most immersive VR experiences.

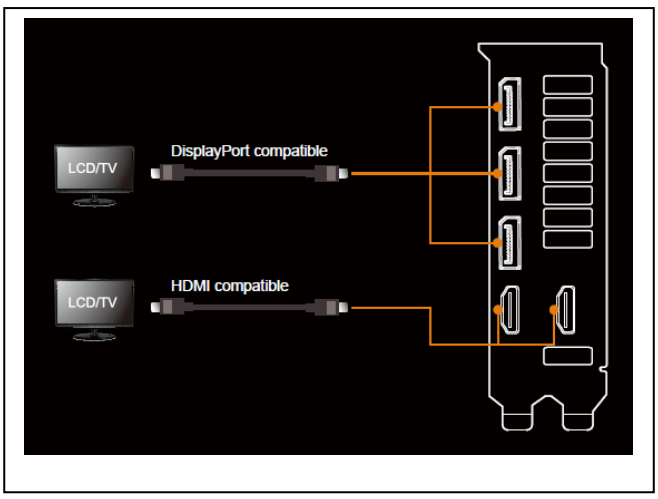
NVIDIA G-SYNC
Get smooth, tear-free gameplay at high refresh rates, plus HDR and more. This is the ultimate gaming display and the go-to equipment for enthusiast gamers.

GeForce Experience
Capture and share videos, screenshots, and live streams with friends. Keep your drivers up to date and optimize your game settings. GeForce Experience lets you do it all. It's the essential companion to your GeForce graphics card.

Game Ready Drivers
GeForce Game Ready Drivers deliver the best experience for your favorite games. They're finely tuned in collaboration with developers and extensively tested across thousands of hardware configurations for maximum performance and reliability.

Resizable BAR
Resizable BAR is an advanced PCI Express feature that enables the CPU to access the entire GPU frame buffer at once, improving performance in many games.

I/O Specifications



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Specifications

Model name	TUF-RTX4090-O24G-OG-GAMING
Graphics Engine	NVIDIA® GeForce RTX™ 4090
CUDA cores	16384
OpenGL®	OpenGL® 4.6
Engine Clock	OC Mode: 2595 MHz Default Mode: 2565 MHz
Memory Interface	384 bit
Video Memory	24 GB GDDR6X
Memory Speed	21 Gbps
Power Connector	1 x 16-pin
I/O	2 x Native HDMI 2.1a 3 x Native DisplayPort 1.4a
HDCP Compliant	HDCP 2.3
Digital Max. Resolution	7680 x 4320
Maximum Display Support	4
NVLink/ Crossfire Support	NA
Recommended PSU	850 W
Bus Standard	PCIE 4.0
What's in the box	1 x Collection Card 1 x Speedsetup Manual 1 x Adapter Cable 1 x Thank you Card
Software Bundled	ASUS GPU Tweak III & GeForce Game Ready Driver & Studio Driver: please download all software from the support site.
Slot	3.2 slot
Dimension	
Card Size (cm/inch)	325.9 *140.2 * 62.8 (mm) 12.83 * 5.52 * 2.47 (inch)
Color Box (mm)	534 x 265 x 85 (mm)
Weight	
Single Card (KG)	1.7 kg
Product Weight (with packing) (KG)	2.7 kg
Note	* 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.

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