## Take Flight

### ASUS innovations

- **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.



### ■ Cooling

A MaxContact heat spreader efficiently transfers heat into a new heatsink that spans most of the card`s 2.9-slot footprint. On top, three optimized Axial-tech fans work in tandem to drive air through the entire array, helping to keep temperatures under tight control.

### ■ Engineering

Top-shelf capacitors, chokes, and MOSFETs are selected to effortlessly deliver hundreds of watts at a millisecond's notice. Dubbed Super Alloy Power II, these components are soldered to the PCB using an Auto-Extreme automated manufacturing process, ensuring accurate placement and a perfect joint every time.
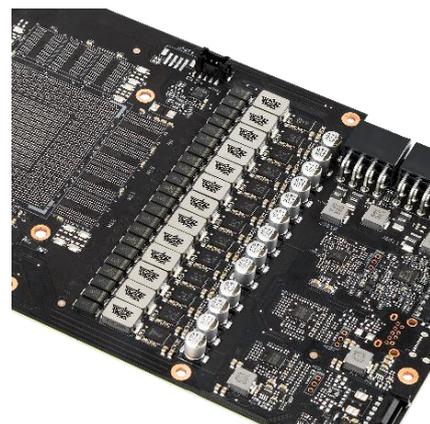
■ **Aesthetic**

A new shroud with metal accents mirrors the design aesthetic of ROG Strix motherboards. The side is lit with an addressable RGB strip that can be customized with Armoury Crate to sync up with other ROG products to create a uniform aesthetic.

■ **Software**

Hardware and software come together to let gamers fully customize and control their gaming experience. GPU Tweak II enables tweaks and monitoring, XSplit offers a robust streaming solution, and wtfast can improve routing to game servers for a more stable gaming connection.
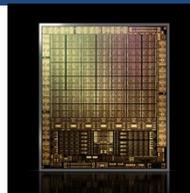
| ASUS Features | NV Features |
|---|---|

**10GB GDDR6X Memory:**
On-board memory for the best gaming experience & the best resolution.

**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.

**OC Edition:**
**1935 MHz** GPU boost clock in OC mode for outstanding gaming experience.
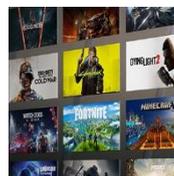
**RTX. IT'S ON.**
Experience today's biggest blockbusters like never before with the visual fidelity of real-time ray tracing and the ultimate performance of AI-powered DLSS.

**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.
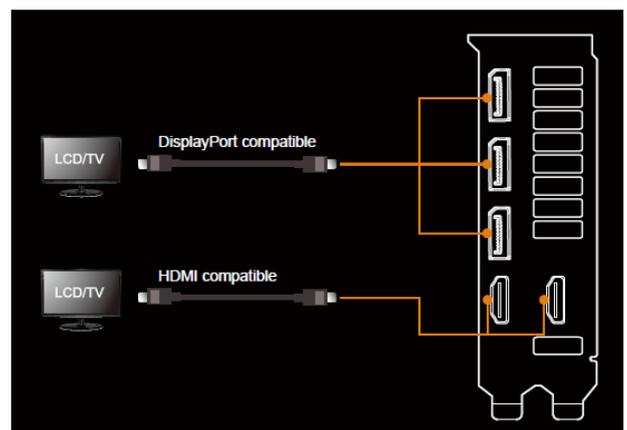
## UP YOUR CREATIVE GAME

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.

## 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.

## I/O Specifications

DisplayPort compatible

LCD/TV

HDMI compatible

LCD/TV

## Specifications

| Model name | ROG-STRIX-RTX3080-O10G-GAMING |
|---|---|
| Graphics Engine | NVIDIA® GeForce RTX™ 3080 |
| CUDA cores | 8704 |
| OpenGL | OpenGL® 4.6 |
| Engine Clock | OC mode : 1935 MHz (Boost Clock)<br>Gaming mode : 1905 MHz (Boost Clock)/ 1440 MHz (Base Clock) |
| Memory Interface | 320 bit |
| Video Memory | 10GB GDDR6X |
| Memory Clock | 19 Gbps |
| Power Connector | 3x 8-pin |
| I/O | 2x Native HDMI 2.1<br>3x Native DisplayPort 1.4a |
| HDCP compliant | HDCP 2.3 |
| Digital Max Resolution | 7680 x 4320 |
| Maximum Display Support | 4 |
| NVLink / Crossfire Support | No |
| Recommended PSU | 750 W |
| Bus Standard | PCIE 4.0 |
| What's in the box | 1 x ROG Velcro Hook & Loop<br>1 x ROG ruler<br>1 x Collection card<br>1 x Speedsetup Manual |
| Software Bundled | ASUS GPU Tweak II & Driver, please download all software from the support site |
| Slot | 2.9 slot |
| **Dimension** | |
| Card Size (cm/inch) | 318.5 x 140.1 x 57.78 mm<br>12.53 x 5.51 x 2.27 inch |
| Color Box (mm) | 405 x 233 x 88.5 mm |
| **Weight** | |
| Single Card (KG) | 1.77 kg |
| Product Weight (with packing) (KG) | 2.53 kg |
| Note | 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. |