

GV-N5090WF3OC-32GD

Gigabyte nVidia GeForce RTX 5090 WINDFORCE OC 32GB GDDR7 512-Bit Graphics Card

Product Overview

Gigabyte nVidia GeForce RTX 5090 WINDFORCE OC - 32GB GDDR7; 512-Bit Memory Bus; 1x HDMI; 3x DisplayPort; Min 1000W PSU. GeForce RTX 5090; 32GB GDDR7; 512-bit; 2467 MHz; DLSS 4; PCI-E 5.0; 342 x 150 x 65 mm; 1000W PSU; DisplayPort 2.1b x3; HDMI 2.1b x1



Specifications

About this product

The Gigabyte RTX 5090 WINDFORCE OC 32GB GDDR7 is a next-generation graphics card built for extreme gaming, advanced AI rendering, and content creation. It features NVIDIA's powerful Blackwell architecture, WINDFORCE cooling, and 32GB of ultra-fast GDDR7 memory.

Designed for 4K performance, neural rendering, and ultra-smooth gameplay, this card is perfect for high-end PC builds. Buy now from our site and experience the future of GPU power.

Overview Summary

The Gigabyte GeForce RTX 5090 WINDFORCE OC 32GB is a powerhouse graphics card built on the cutting-edge NVIDIA Blackwell architecture. Featuring 32GB of ultra-fast GDDR7 memory and a wide 512-bit interface, it delivers incredible performance for demanding gaming and professional workloads. With advanced ray tracing, AI-powered DLSS 4, and neural shaders, this card is designed to power next-generation experiences.

Cooling is handled by the WINDFORCE system, which includes Hawk fans, alternate spinning, server-grade thermal gel, and a large vapor chamber for maximum thermal efficiency. Built for stability, it also features dual BIOS modes, a reinforced structure, and a versatile VGA holder for seamless integration and support.

Performance tier:Enthusiast / Flagship

Uses:4K gaming, AI rendering, content creation, 3D modelling, streaming, video production

Description

The Gigabyte GeForce RTX 5090 WINDFORCE OC 32GB GDDR7 is engineered for gamers, creators, and power users seeking maximum performance. Built on the Blackwell architecture, it offers a massive leap in processing power and efficiency. The inclusion of 32GB GDDR7 memory and a 512-bit bus ensures smooth rendering of the most complex visuals at high resolutions.

The WINDFORCE cooling system uses server-grade thermal gel, alternate spinning Hawk fans, and composite copper heat pipes to dissipate heat efficiently. Silent mode via Dual BIOS ensures acoustic control when performance is not a priority. The large vapor chamber and screen cooling further enhance thermal performance.

Users will benefit from new AI features, like DLSS 4 with Multi Frame Generation and Reflex 2 with Frame Warp. The advanced PCB design uses ultra-durable components and a reinforced structure for long-lasting reliability. The friendly PCB design ensures smooth, injury-free handling and easy integration into any high-end build.

Quick Specifications

- GPU: GeForce RTX 5090
- Memory: 32GB GDDR7
- Memory Bus: 512-bit
- Core Clock: 2467 MHz
- CUDA Cores: 21760
- Memory Speed: 28 Gbps
- PCIe Gen 5.0, 3 x DisplayPort 2.1b, 1 x HDMI 2.1b
- Recommended PSU: 1000W
- Dimensions: 342 x 150 x 65 mm

Features

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Product Specification Sheet

The RTX 5090 WINDFORCE OC pushes the boundaries of graphical performance, thermal design, and user-focused features.

- Powered by GeForce RTX(TM) 5090
- Powered by NVIDIA Blackwell architecture and DLSS 4 for AI-accelerated performance
- 32GB of high-speed GDDR7 memory with a 512-bit interface
- WINDFORCE cooling system with Hawk fans, vapor chamber, and screen cooling
- Dual BIOS mode for either maximum performance or silent operation
- Reinforced structure with metal backplate and versatile VGA holder
- Enhanced AI capabilities with fifth-gen Tensor cores and NVIDIA ACE
- NVIDIA Reflex 2 for ultra-low latency responsiveness
- Support for NVIDIA Studio, Broadcast, and G-SYNC technologies
- Friendly PCB design with ultra-durable components
- Graphene nano lubricant for extended fan life and reduced noise

Fifth-Gen Tensor Cores

Max AI performance with FP4 and DLSS 4

New Streaming Multiprocessors

Optimized for neural shaders

Fourth-Gen Ray Tracing Cores

Built for Mega Geometry

AI-Enhanced Graphics and Performance

NVIDIA DLSS 4 with Multi Frame Generation

Game-Winning Responsiveness

NVIDIA Reflex 2 with Frame Warp

True-to-Life Graphics

Full ray tracing with neural rendering

Digital Humans and AI Assistants

NVIDIA ACE

Accelerate Your Creativity

NVIDIA Studio creator tools and technology

Enhance Any Video with AI

NVIDIA Broadcast and ninth-gen NVIDIA Encoder

Performance and Reliability

NVIDIA app with Game Ready and Studio Drivers

The Ultimate Gaming Display Technologies

NVIDIA G-SYNC

WINDFORCE COOLING SYSTEM

The WINDFORCE cooling system delivers exceptional thermal performance through a combination of cutting-edge technologies. It features server-grade thermal conductive gel, innovative Hawk fans with alternate spinning, composite copper heat pipes, a large vapor chamber, 3D active fans, and screen cooling.

ComX Computers

Product Specification Sheet

HAWK FAN

The Hawk Fan features a unique blade design inspired by the aerodynamics of an eagle's wing. This design reduces air resistance and noise levels, resulting in up to a 53.6% increase in air pressure and a 12.5% increase in air volume without compromising acoustics.

GRAPHENE NANO LUBRICANT

Graphene nano lubricant can extend the life of sleeve bearing fan by 2.1 times, close to the life of double ball bearing, and is quieter.

ALTERNATE SPINNING

Reduce the turbulence of adjacent fans and increase airflow pressure.

3D ACTIVE FAN

The 3D Active Fan provides semi-passive cooling, and the fans will remain off when the GPU is in a low load or low power game.

SERVER-GRADE THERMAL CONDUCTIVE GEL

To enhance product quality and reliability, we have introduced server-grade thermal conductive gel for cooling critical components such as VRAM and MOSFETs. This highly deformable, non-fluid gel provides optimal contact for uneven surface and effectively resists deformation from transport or long-term use, unlike traditional thermal pads.

LARGE VAPOR CHAMBER & COMPOSITE COPPER HEAT PIPE

The large vapor chamber directly contacts the GPU, coupled with the composite copper heat pipes, which quickly transfers the heat of the GPU and VRAM to the heatsink.

SCREEN COOLING

Extended heatsink allows air to pass through, providing better heat dissipation.

DUAL BIOS (Performance / Silent)

The factory default setting is Performance mode, which provides users with the best performance. However, switching to Silent mode will enjoy a quieter experience.

REINFORCED STRUCTURE

The reinforced metal backplate with a bent edge, securely fastened to the I/O bracket, provides exceptional structural integrity.

VERSATILE VGA HOLDER

Our newly designed VGA holder offers dozens of customizable mounting options, ensuring your graphics card is securely supported and prevents sagging. Its sleek design allows for discreet installation, enhancing the overall aesthetics of your system.

ULTRA DURABLE

Ultra Durable certified highest-grade metal chokes, lower ESR solid capacitors, 2oz copper PCB, and lower RDS(on) MOSFETs, plus over-temperature design to deliver superior performance and longer system life.

FRIENDLY PCB DESIGN

Fully automated production process ensures top quality of the circuit boards and eliminates sharp protrusions of the solder connectors seen on the conventional PCB surface. This friendly design prevents your hands from getting cut or inadvertently damaging components when making your build.

POWER THROUGH THE GAME

GIGABYTE offers the best power supply solutions for your graphics cards. You can choose either the AORUS series or the UD series to power your graphics card.

GIGABYTE CONTROL CENTER

GIGABYTE CONTROL CENTER (GCC) is a unified software for all GIGABYTE supported products. It provides an intuitive interface that allows users to adjust clock speed, voltage, fan mode and power target in real-time.

Specifications

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Specifications

Product Code	GV-N5090WF3OC-32GD
Graphics Processing	GeForce RTX 5090
Core Clock	2467 MHz (Reference card : 2407MHz)
CUDA Cores	21760
Memory Clock	28 Gbps
Memory Size	32 GB
Memory Type	GDDR7
Memory Bus	512 bit
Card Bus	PCI-E 5.0
Digital max resolution	7680x4320
Multi-view	4
Card size	L=342 W=150 H=65 mm
PCB Form	ATX
DirectX	DirectX 12 API
OpenGL	4.6
Recommended PSU	1000W
Power Connectors	16 Pin*1
Output	DisplayPort 2.1b *3
	HDMI 2.1b *1
Accessories	1. Quick guide
	2. 1x 12V-2x6 to 4x PCIe 8pin adapter
	3. Versatile VGA holder
	4. Versatile VGA holder manual

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/GV-N5090WF3OC-32GD-Gigabyte-nVidia-GeForce-RTX-5090-Buy-p-326441.php>

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