

## GRAPHICS CARDS GeForce RTX<sup>™</sup> 5090 32G VANGUARD SOC









# **SPECIFICATIONS**

Marketing Name	GeForce RTX <sup>™</sup> 5090 32G VANGUARD SOC
Model Name	G5090-32VGS
Graphics Processing Unit	NVIDIA <sup>®</sup> GeForce RTX <sup>™</sup> 5090
Interface	PCI Express <sup>®</sup> Gen 5
Core Clocks	Extreme Performance: 2527 MHz (MSI Center) Boost: 2512 MHz (GAMING & SILENT Mode)
CUDA <sup>®</sup> CORES	21760 Units
Memory Speed	28 Gbps
Memory	32GB GDDR7
Memory Bus	512bit
Output	DisplayPort x 3 (v2.1b) HDMI <sup>™</sup> x 1 (As specified in HDMI <sup>™</sup> 2.1b: up to 4K 480Hz or 8K 120Hz with DSC, Gaming VRR, HDR)
HDCP Support	Y
Power consumption	575W
Power connectors	16-pin x 1
Recommended PSU	1000W
Card Dimension (mm)	357 x 151 x 76 mm
Weight (Card / Package)	2407 g / 3302 g
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
Maximum Displays	4
G-SYNC <sup>®</sup> technology	Y
<b>Digital Maximum Resolution</b>	7680 x 4320

## **CONNECTIONS**



# **FEATURES**



## HYPER FROZR THERMAL DESIGN

An apex evolution of advanced thermal design that delivers unparalleled cooling and quiet operation.



### STORMFORCE FAN

Seven fan blades, claw texturing, and a circular arc are designed for optimal airflow with minimal noise.

#### **Advanced Vapor Chamber**

Built-in Vapor Chamber swiftly transfers heat from the GPU and VRAM to the core pipe for optimal dissipation.

### Core Pipes



Core Pipes feature a square design to maximize contact with the GPU baseplate for optimal thermal management.

### Filled Fins



Updated heat pipe pathing has allowed more space for additional heatsink fins.

#### Air Antegrade Fin 2.0



The fins feature a V-shaped cutout and a high-low design at the airflow passthrough to optimize flow efficiency.

#### Wave Curved 4.0



Precision-engineered wave edges with a high-low fin design enhance airflow and reduce turbulence.

#### Metal Backplate



A reinforcing metal backplate with airflow vents and thermal pads enhances cooling.

### Dual BIOS



Dual BIOS lets you set the priority to full performance in GAMING mode or low noise in SILENT mode.

## MSI Center



The exclusive MSI Center software lets you monitor, tweak and optimize MSI products in real-time.

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