



## SPECIFICATIONS

<b>Marketing Name</b>	GeForce RTX™ 5090 32G VANGUARD SOC LAUNCH EDITION
<b>Model Name</b>	G5090-32VGSL
<b>Cores</b>	21760 Units
<b>Memory</b>	32GB GDDR7
<b>Standard sběrnice</b>	PCI Express® Gen 5
<b>Rozhraní paměti</b>	512 bit
<b>Takt jádra (MHz)</b>	Extreme Performance: 2527 MHz (MSI Center) Boost: 2512 MHz (GAMING & SILENT Mode)
<b>Takt paměti (MHz)</b>	28 Gbps
<b>Max připojených displejů</b>	4
<b>Output</b>	DisplayPort x 3 (v2.1b) HDMI™ x 1 (As specified in HDMI™ 2.1b: up to 4K 480Hz or 8K 120Hz with DSC, Gaming VRR, HDR)
<b>HDCP podpora</b>	Y
<b>Doporučený výkon zdroje (W)</b>	1000W
<b>Digital Maximum Resolution</b>	7680 x 4320
<b>Napájecí kabely</b>	16-pin x 1
<b>Podpora DirectX verze</b>	12 Ultimate
<b>Podpora OpenGL verze</b>	4.6
<b>Rozměry (mm)</b>	357 x 151 x 76 mm
<b>Váha (g)</b>	2407 g / 4456 g

## CONNECTIONS



1. DisplayPort
2. HDMI™

## FEATURES



### HYPER FROZR THERMAL DESIGN

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



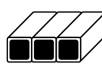
### STORMFORCE FAN

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.



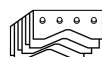
### Core Pipes

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



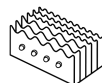
### Filled Fins

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.