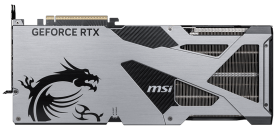
GRAPHICS CARD

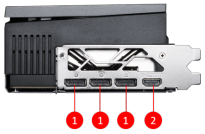
# GeForce RTX™ 5090 32G VANGUARD SOC LAUNCH EDITION


## SPECIFICATIONS

| | |
|---|---|
| **Marketing Name** | GeForce RTX™ 5090 32G VANGUARD SOC LAUNCH EDITION |
| **Memory** | 32GB GDDR7 |
| **Graphics Engine** | NVIDIA® GeForce RTX™ 5090 |
| **Bus Standard** | PCI Express® Gen 5 |
| **Memory Interface** | 512 bit |
| **Core Clock Speed(MHz)** | Extreme Performance: 2527 MHz (MSI Center)<br>Boost: 2512 MHz (GAMING & SILENT Mode) |
| **Memory Clock Speed(MHz)** | 28 Gbps |
| **Maximum Displays** | 4 |
| **G-SYNC™ technology** | Y |
| **Output** | DisplayPort x 3 (v2.1b)<br>HDMI™ x 1 (As specified in HDMI™ 2.1b: up to 4K 480Hz or 8K 120Hz with DSC, Gaming VRR, HDR) |
| **HDCP Support** | Y |
| **Power consumption (W)** | 575W |
| **Recommended Power Supply (W)** | 1000W |
| **Digital Maximum Resolution** | 7680 x 4320 |
| **Power Connectors** | 16-pin x 1 (ATX 3.1 PSU recommended) |
| **DirectX Version Support** | 12 Ultimate |
| **OpenGL Version Support** | 4.6 |
| **Card Dimension(mm)** | 357 x 151 x 76 mm |
| **Weight** | 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.

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