



SPECIFICATIONS

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|-----------------------------------|---|
| Marketing Name | GeForce RTX™ 5070 12G VANGUARD SOC |
| Model Name | G5070-12VGS |
| Graphics Processing Unit | NVIDIA® GeForce RTX™ 5070 |
| Interface | PCI Express® Gen 5 |
| Core Clocks | Extreme Performance: 2655 MHz (MSI Center) Boost: 2640 MHz |
| CUDA® CORES | 6144 Units |
| Memory Speed | 28 Gbps |
| Memory | 12GB GDDR7 |
| Memory Bus | 192-bit |
| Output | 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) |
| HDCP Support | Y |
| Power consumption | 250W |
| Power connectors | 16-pin x 1 (ATX 3.1 PSU recommended) |
| Recommended PSU | 650W |
| Card Dimension (mm) | 337 x 140 x 61 mm |
| Weight (Card / Package) | 1503 g / 2296 g |
| DirectX Version Support | 12 Ultimate |
| OpenGL Version Support | 4.6 |
| Maximum Displays | 4 |
| G-SYNC® technology | Y |
| Digital Maximum Resolution | 7680 x 4320 |

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.



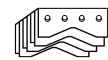
Core Pipes

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



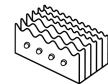
Filled Fins

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.



MSI Center

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



Afterburner

Take full control with the most recognized and widely used graphics card overclocking software in the world.