



## SPECIFICATIONS

|                            |                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Marketing Name             | GeForce RTX™ 5070 12G VANGUARD SOC                                                                                      |
| Model Name                 | G5070-12VGS                                                                                                             |
| Graphics Processing Unit   | NVIDIA® GeForce RTX™ 5070                                                                                               |
| Interface                  | PCI Express® Gen 5                                                                                                      |
| Cores                      | 6144 Units                                                                                                              |
| Core Clocks                | Extreme Performance: 2655 MHz (MSI Center)<br>Boost: 2640 MHz                                                           |
| Memory Speed               | 28 Gbps                                                                                                                 |
| Memory                     | 12GB GDDR7                                                                                                              |
| Memory Bus                 | 192-bit                                                                                                                 |
| 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          | 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                                                                                                             |
| Mic-in/Headphone-out       | 1/1                                                                                                                     |

## 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.



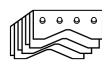
### Core Pipes

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



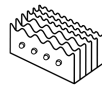
### Filled Fins

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.