



SPECIFICATIONS

Marketing Name	GeForce RTX™ 5070 12G VANGUARD SOC LAUNCH EDITION
Model Name	G5070-12VGS
Cores	6144 Units
Memory	12GB GDDR7
Graphics Engine	NVIDIA® GeForce RTX™ 5070
Interface	PCI Express® Gen 5
Weight (Card / Package)	1503 g / 3382 g
Memory Interface	192-bit
Core Clock Speed(MHz)	Extreme Performance: 2655 MHz (MSI Center) Boost: 2640 MHz
Memory Clock Speed(MHz)	28 Gbps
Maximum Displays	4
G-SYNC™ technology	Y
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 (W)	250W
Recommended Power Supply (W)	650W
Digital Maximum Resolution	7680 x 4320
Power Connectors	16-pin x 1
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
Card Dimension(mm)	337 x 140 x 61 mm

CONNECTIONS



1. DisplayPort
2. HDMI™

FEATURES



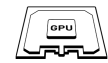
HYPER FROZR THERMAL DESIGN

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.



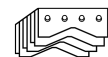
Core Pipes

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



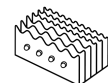
Filled Fins

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.