msi®

GEFORCE RTX
Powering Advanced AI

SPECIFICATIONS

Marketing Name	GeForce RTX™ 5090 32G GAMING TRIO
Core Clocks	Extreme Performance: 2422 MHz (MSI Center) Boost: 2407 MHz (GAMING & SILENT Mode)
Model Name	G5090-32GT
Graphics Processing Unit	NVIDIA® GeForce RTX™ 5090
Interface	PCI Express® Gen 5
HDCP Support	Y
Cores	21760 Units
Memory Clock Speed	28 Gbps
Memory	32GB GDDR7
Memory Bus	512-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)
Power consumption	575 W
Power connectors	16-pin x 1
Recommended PSU	1000 W
Card Dimension(mm)	359 x 149 x 70 mm
Weight (Card / Package)	2119 g / 2735 g
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
Maximum Displays	4
Digital Maximum Resolution	7680 x 4320
G-SYNC™ technology	Y

CONNECTIONS

1. DisplayPort
2. HDMI™

FEATURES

TRI FROZR 4

Upgraded fans, airflow control, and thermal design deliver superior cooling and quieter operation.

STORMFORCE FAN

Seven fan blades, claw texturing, and a circular arc are designed for optimal airflow with minimal noise.

Nickel-plated Copper Baseplate

Heat from the GPU and memory is swiftly captured by a nickel-plated copper baseplate and transferred.

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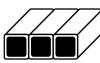
Core Pipes feature a square design to maximize contact with the GPU baseplate for optimal thermal management.

Metal Backplate

A reinforcing metal backplate with airflow vents and thermal pads enhances cooling.

Wave Curved 4.0
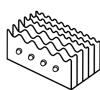
Precision-engineered wave edges with a high-low fin design enhance airflow and reduce turbulence.

Air Antegrade Fin 2.0
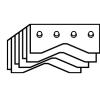
The fins feature a V-shaped cutout and a high-low design at the airflow passthrough to optimize flow efficiency.

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.

Afterburner

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

Generated 2025-01-22, check for the latest version www.msi.com/datasheet. The information provided in this document is intended for informational purposes only and is subject to change without notice.