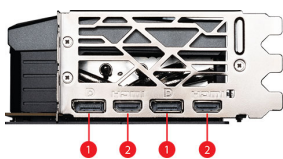




SPECIFICATIONS

Memory	24GB GDDR6X
HDCP Support	Y
Graphics Engine	NVIDIA® GeForce RTX™ 4090
Bus Standard	PCI Express® Gen 4
Memory Interface	384-bit
Core Clock Speed(MHz)	Extreme Performance: 2535 MHz (MSI Center) Boost: 2520 MHz (GAMING & SILENT Mode)
Memory Clock Speed(MHz)	21 Gbps
Maximum Displays	4
Power consumption (W)	450 W
Output	DisplayPort x 2 (v1.4a) HDMI™ x 2 (Supports 4K@120Hz HDR and 8K@60Hz HDR and Variable Refresh Rate (VRR) as specified in HDMI 2.1a)
Recommended Power Supply (W)	850 W
Digital Maximum Resolution	7680 x 4320
Power Connectors	16-pin x 1
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
Mic-in/Headphone-out	1/1
Card Dimension(mm)	322 x 136 x 62 mm
Weight	1777 g / 2652 g

CONNECTIONS



1. DisplayPort
2. HDMI™

FEATURES



TRI FROZR 3

Stay cool and quiet. MSI's TRI FROZR 3 thermal design enhances heat dissipation all around the graphics card.



TORX FAN 5.0

Fan blades linked by ring arcs and a fan cowl work together to stabilize and maintain high-pressure airflow.



Copper Baseplate

Heat from the GPU and memory modules is captured by a copper baseplate and then rapidly transferred to Core Pipes.



Core Pipe

Precision-machined heat pipes ensure max contact to the GPU and spread heat along the full length of the heatsink.



Airflow Control

Sections of different heatsink fins disrupt unwanted airflow harmonics and reduce noise.



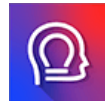
Metal Backplate

Thermal pads under the sturdy metal backplate provide additional cooling while the flow-through ventilation reduces trapped heat.



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.