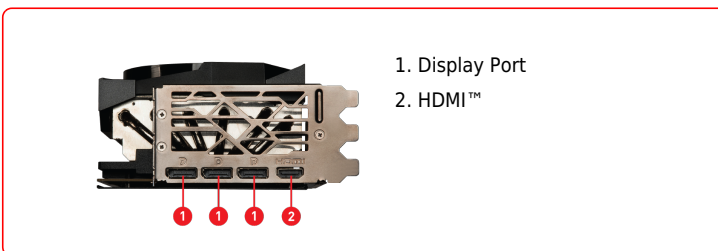




## SPECIFICATIONS

<b>Memory</b>	24GB GDDR6X
<b>Output</b>	DisplayPort x 3 (v1.4a) HDMI™ x 1 (Supports 4K@120Hz HDR, 8K@60Hz HDR, and Variable Refresh Rate as specified in HDMI™ 2.1a)
<b>Graphics Processing Unit</b>	NVIDIA® GeForce RTX™ 4090
<b>Interface</b>	PCI Express® Gen 4
<b>Core Clock Speed (MHz)</b>	Extreme Performance: 2610 MHz (MSI Center) Boost: 2595 MHz (GAMING & SILENT Mode)
<b>Memory Interface</b>	384-bit
<b>Memory Clock Speed (MHz)</b>	21 Gbps
<b>OpenGL Version Support</b>	4.6
<b>Maximum Displays</b>	4
<b>HDCP Support</b>	Y
<b>DirectX Version Support</b>	12 Ultimate
<b>Card Dimension(mm)</b>	337 x 140 x 77 mm
<b>Card Weight (g)</b>	2170 g / 3093 g
<b>Power consumption (W)</b>	450 W
<b>Recommended PSU (W)</b>	850 W
<b>Digital Maximum Resolution</b>	7680x4320
<b>Power Connectors</b>	16-pin x 1
<b>Mic-in/Headphone-out</b>	1/1

## CONNECTIONS



1. Display Port
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.



### Anti Bending

A die-cast anti-bending plate reinforces the card while thermal pads allow cooling to reach critical component underneath.



### Aluminum Backplate

Thermal pads beneath the sturdy metal backplate provide additional cooling.



### Dual BIOS

Dual BIOS lets you set the priority to full performance in GAMING mode or low noise in SILENT mode.