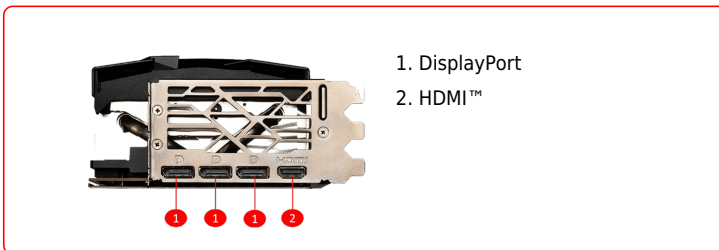




## SPECIFICATIONS

<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: 2595MHz (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>	336 x 142 x 78 mm
<b>Card Weight (g)</b>	2413g / 3636g
<b>Power consumption (W)</b>	Silent mode: 450W Gaming mode: 480W
<b>Recommended PSU (W)</b>	1000W (Min. 850W)
<b>Digital Maximum Resolution</b>	7680 x 4320
<b>Power Connectors</b>	16-pin x 1

## CONNECTIONS



## FEATURES

- TRI FROZR 3S**  
 Push performance with the latest MSI cooling design and elevate sophistication with a prestigious appearance.
- TORX FAN 5.0**  
 Fan blades linked by ring arcs and a fan cowl work together to stabilize and maintain high-pressure airflow.
- Vapor Chamber**  
 The GPU and memory modules are covered with a Vapor Chamber which rapidly transfers heat 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.
- Zero Frozr**  
 The fans completely stop when temperatures are relatively low, eliminating all noise.
- Metal Backplate**  
 Thermal pads under the sturdy metal backplate provide additional cooling while the flow-through ventilation reduces trapped heat.
- Wave Curved 3.0**  
 Additional efficiency is gained by adjusting the size of the wave edges under the fan motor and other spots where there is less airflow.