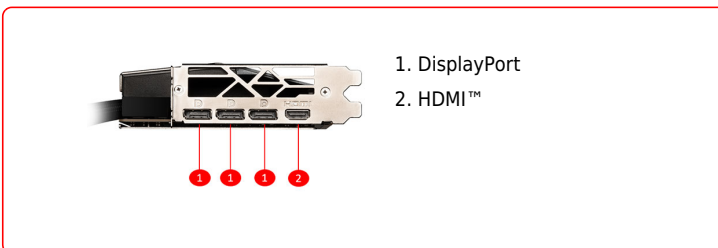




SPECIFICATIONS

Memory	24GB GDDR6X
Output	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)
Graphics Processing Unit	NVIDIA® GeForce RTX™ 4090
Interface	PCI Express® Gen 4
Core Clock Speed (MHz)	Extreme Performance: 2640 MHz (MSI Center) Boost: 2625 MHz (GAMING & SILENT Mode)
Memory Interface	384-bit
Memory Clock Speed (MHz)	21 Gbps
OpenGL Version Support	4.6
Maximum Displays	4
HDCP Support	Y
DirectX Version Support	12 Ultimate
Card Dimension(mm)	Card: 280 x 140 x 43 mm radiator + fan: 274 x 121 x 55 mm Tube length: L470 ± 10 x D11.2 mm
Card Weight (g)	2353 g / 3837 g
Power consumption (W)	Silent mode: 450W Gaming mode: 480W
Recommended PSU (W)	1000W (Min. 850W)
Digital Maximum Resolution	7680x4320
Power Connectors	16-pin x 1

CONNECTIONS



FEATURES

- Zero Frozr**
 Zero Frozr is the calm before the storm, keeping fans still and maintaining silence until cooling is needed.
- Superior Cooling**
 The GPU is kept cool by closed loop liquid cooler while the memory and VRM's are cooled by a radial fan.
- TORX FAN 5.0**
 Fan blades linked by ring arcs and a fan cowl work together to stabilize and maintain high-pressure airflow.
- Micro-Fin Copper Base**
 A copper base with fine micro-fins immersed in the liquid stream effectively transfers heat away from the VRAM and GPU.
- Aluminum Heat Radiator**
 Easy to install 240mm black aluminum radiator to reduce fan demand and dissipate heat efficiently.
- Quick And Easy Installation**
 Upgrade to the power of liquid-cooled graphics in one minute or less.
- 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.