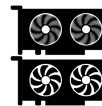


SPECIFICATIONS

Model Name	GeForce RTX™ 4090 SUPRIM LIQUID 24G
Graphics Processing Unit	NVIDIA® GeForce RTX™ 4090
Interface	PCI Express® Gen 4
Core Clocks	Extreme Performance: 2610 MHz (MSI Center) Boost: 2595 MHz (GAMING & SILENT Mode)
CUDA® CORES	16384 Units
Memory Speed	21 Gbps
Memory	24GB GDDR6X
Memory Bus	384-bit
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)
HDCP Support	Y
Power consumption	Silent mode: 450W Gaming mode: 480W
Power connectors	16-pin x 1
Recommended PSU	1000W (Min. 850W)
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
Weight (Card / Package)	2353 g / 3837 g
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
Maximum Displays	4
G-SYNC® technology	Y
Digital Maximum Resolution	7680x4320

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

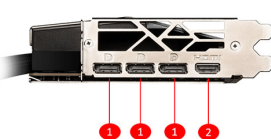
Dual BIOS lets you set the priority to full performance in GAMING mode or low noise in SILENT mode.



MSI Center

The exclusive MSI Center software lets you monitor, tweak and optimize MSI products in real-time.

CONNECTIONS



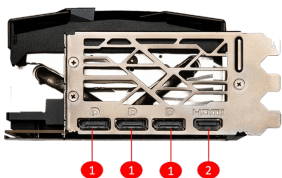
1. DisplayPort
2. HDMI™



SPECIFICATIONS

Model Name	GeForce RTX™ 4090 SUPRIM 24G
Graphics Processing Unit	NVIDIA® GeForce RTX™ 4090
Interface	PCI Express® Gen 4
Core Clocks	Extreme Performance: 2610 MHz (MSI Center) Boost: 2595MHz (GAMING & SILENT Mode)
CUDA® CORES	16384 Units
Memory Speed	21 Gbps
Memory	24GB GDDR6X
Memory Bus	384-bit
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)
HDCP Support	Y
Power consumption	Silent mode: 450W Gaming mode: 480W
Power connectors	16-pin x 1
Recommended PSU	1000W (Min. 850W)
Card Dimension (mm)	336 x 142 x 78 mm
Weight (Card / Package)	2413g / 3636g
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
Maximum Displays	4
G-SYNC® technology	Y
Digital Maximum Resolution	7680 x 4320

CONNECTIONS



1. DisplayPort
2. HDMI™

FEATURES



TRI FROZR 3S

Push performance with the latest MSI cooling design and elevate sophistication with a prestigious appearance.



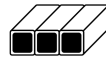
TORX FAN 5.0

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 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

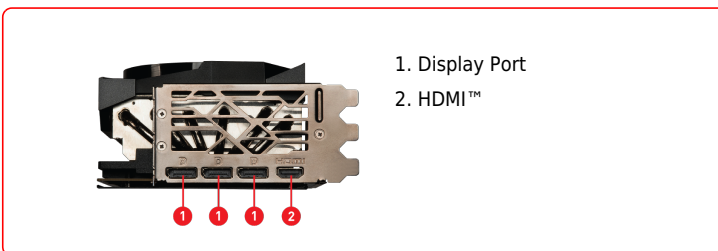
Additional efficiency is gained by adjusting the size of the wave edges under the fan motor and other spots where there is less airflow.



SPECIFICATIONS

Model Name	GeForce RTX™ 4090 GAMING X TRIO 24G
Graphics Processing Unit	NVIDIA® GeForce RTX™ 4090
Interface	PCI Express® Gen 4
Core Clocks	Extreme Performance: 2610 MHz (MSI Center) Boost: 2595 MHz (GAMING & SILENT Mode)
CUDA® CORES	16384 Units
Memory Speed	21 Gbps
Memory	24GB GDDR6X
Memory Bus	384-bit
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)
HDCP Support	Y
Power consumption	450 W
Power connectors	16-pin x 1
Recommended PSU	850 W
Card Dimension (mm)	337 x 140 x 77 mm
Weight (Card / Package)	2170 g / 3093 g
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
Maximum Displays	4
G-SYNC® technology	Y
Digital Maximum Resolution	7680x4320

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.



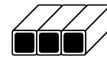
TORX FAN 5.0

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 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.



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.