

# MSI GeForce RTX 4090 GAMING X TRIO 24G

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<b>Artikel</b>	703247
<b>Herstellernummer</b>	GEFORCE RTX 4090 GAMING X TRIO 24G
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## **GAMING IN STYLE**

Play with style! GAMING is upgraded with TRI FROZR 3 to sustain intense performance during gaming and content creation. A high-speed style matches high-performance capabilities for gamers who want to go all out.

## **STRENGTH AND ARTISTRY**

MSI envisioned the GAMING series as the favored graphic cards solution for all sorts of gamers, including adventure seekers, esport competitors, livestream broadcasters, and more. GAMING reflects both the spirit of gamers and the intense performance within the cards with a styled exterior that erupts with colorful lights between bold lines and edges.

## **TRI FROZR 3 THERMAL DESIGN**

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

## **TORX FAN 5.0**

TORX FAN 5.0 is a culmination of fan design improvements to increase the air pressure and flow into the heatsink. Ring arcs link three sets of fan blades that tilt 22 degrees together to maintain high-pressure airflow even at slower rotational speeds. The resulting increased airflow is +23% compared to an axial fan.

A fan cowl extends a bit beyond the general enclosure to lengthen the wind's passageway, allowing airflow to stabilize and move smoother through the fans. Bulging notches under the cowl help to reduce recirculation, thus further improving airflow stability and reducing some noise.

## **COPPER BASEPLATE FACING THE HEAT HEAD-ON**

Heat from the GPU and memory modules is immediately captured by a solid nickel-plated copper baseplate and then rapidly transferred to an array of heat pipes. This widening of the thermal transfer systems with highly efficient mechanisms improves overall efficiency.

## **KEEPING THE CORE COOL**

Core Pipes are precision-crafted to make maximum use of the available space. A squared section of heat pipes fully touch the GPU baseplate and spread the heat along the full length of the heatsink.

Airflow Control improves airflow dynamics through the Wave Curved 2.0, updated deflectors, and Air Antegrade fin design for optimizing the balance between cooling and quieter acoustics.

## **AIR ANTEGRADE FIN**

Fins with a V-shaped cutout are located at the airflow passthrough to improve flow efficiency. Optimizing the inclination angle and increasing the wave notch shapes the air resistance towards the center, pushing out warm air faster like a nozzle.

## **High-Efficiency Carbonyl Inductors (HCI)**

Manufacturing and material improvements to our choke parts have culminated as High-Efficiency Carbonyl Inductors (HCI.) One-piece molding allows this design to operate with less choke noise and better electrical filtering.

#### **SPS**

Highly efficient Smart Power Stages (SPS) allow for accurate current regulation with lower resistance. The result is less power loss and less heat produced from the power layout.

#### **Change Focus When Needed**

Dual BIOS gives you the choice to prioritize full performance in GAMING mode or low noise in SILENT mode.

#### **Effective Thermal Padding**

An abundance of clay-based thermal pads provide additional heat dissipation for board components.

#### **Hardened Defenses**

Additional fuses built into the custom PCB provide additional safeguards against electrical damage.

#### **RELENTLESS DEFENSE**

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

#### **YOUR SUPPORT CHARACTER**

A bundled support bracket can be attached to your PC case for additional graphics card reinforcement.

## **Zusammenfassung**

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MSI GeForce RTX 4090 GAMING X TRIO 24G, GeForce RTX 4090, 24 GB, GDDR6X, 384 bit, 7680 x 4320 pixels, PCI Express 4.0

MSI GeForce RTX 4090 GAMING X TRIO 24G. Graphics processor family: NVIDIA, Graphics processor: GeForce RTX 4090. Discrete graphics card memory: 24 GB, Graphics card memory type: GDDR6X, Memory bus: 384 bit. Maximum resolution: 7680 x 4320 pixels. DirectX version: 12.0, OpenGL version: 4.6. Interface type: PCI Express 4.0. Cooling type: Active, Number of fans: 3 fan(s)

## Merkmale

### Packaging data

Package weight	3.09 kg
Package type	Box

### Memory

Discrete graphics card memory	24 GB
Graphics card memory type	GDDR6X
Memory bus	384 bit

### Power

Minimum system power supply	850 W
Power consumption (typical)	450 W
Supplementary power connectors	1x 16-pin

### Weight & dimensions

Weight	2.17 kg
Depth	337 mm
Height	140 mm
Width	77 mm

### Ports & interfaces

Interface type	PCI Express 4.0
HDMI ports quantity	1
HDMI version	2.1a
DisplayPorts quantity	3
DisplayPort version	1.4a

### Design

Cooling type	Active
Cooling technology	MSI TORX FAN 5.0
Number of fans	3 fan(s)
Form factor	Full-Height/Full-Length (FH/FL)
Illumination	Yes
Product colour	Black

### Performance

TV tuner integrated	No
DirectX version	12.0
OpenGL version	4.6
HDCP	Yes
Dual Link DVI	No
NVIDIA G-SYNC	Yes
AMD FreeSync	No

### Processor

CUDA	Yes
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CUDA cores	16384
Graphics processor family	NVIDIA
Graphics processor	GeForce RTX 4090
Processor boost clock speed	2595 MHz
Maximum resolution	7680 x 4320 pixels
Parallel processing technology support	Not supported
Maximum displays per videocard	4

Preisänderungen und Irrtümer vorbehalten. Alle Produkte solange der Vorrat reicht.