

## GameRock Series

- Midnight Kaleidoscope Concept
- One Two SYNC
- Gale Hunter Fan
- Y Formula Fins
- Composite Heat Pipes
- Vapor Chamber
- Anti-Gravity Plate
- Exquisite Metal Backplate
- Dual BIOS (Performance / Silent Mode)
- 0-dB Technology

## Minimum System Requirements

- PCI Express-compliant motherboard with one tri-width x16 graphics slot
- 1200 W or greater system power supply
- One 16-pin PCIe 12VHPWR or three 8-pin supplementary power connectors
- Microsoft Windows<sup>®</sup> 11, Windows<sup>®</sup> 10 64-bit, Linux 64-bit

## NV Features

- Dedicated Ray Tracing Cores
- Dedicated Tensor Cores
- NVIDIA DLSS
- Game Ready and NVIDIA Studio Drivers
- NVIDIA<sup>®</sup> GeForce Experience<sup>™</sup>
- NVIDIA Broadcast
- NVIDIA G-SYNC<sup>®</sup>
- NVIDIA GPU Boost<sup>™</sup>
- GDDR6X Graphics Memory
- PCI Express<sup>®</sup> Gen 4
- Microsoft DirectX<sup>®</sup> 12 Ultimate
- Vulkan RT APIs, Vulkan 1.3, OpenGL 4.6
- HDCP 2.3
- DisplayPort 1.4a
- Supports 4K 120Hz HDR, 8K 60Hz HDR, and Variable Refresh Rate as specified in HDMI 2.1a



Part Number	NED4090019SB-1020G
EAN Code	4710562243383
GPU	GeForce RTX 4090
Core Name	AD102
CUDA Core	16384
Core Clock	2235 MHz
Boost Clock	2520 MHz
DRAM Type	GDDR6X
DRAM Amount	24 GB
DRAM Interface	384 bits
DRAM Speed	21 Gbps
DRAM Bandwidth	1008 GB/s
Board Power	450 W
Output	DP 1.4a x 3 HDMI 2.1a x 1
Bracket	3 slot
Cooler	3.5 slot
Board size	329.4 x 137.5 x 71.5 mm
Box size	460 x 290 x 115 mm
Retail Pack	5 pcs per carton
Box including	<ul style="list-style-type: none"> <li>➢ GeForce RTX 4090</li> <li>➢ Power Cable</li> <li>➢ ARGB SYNC Cable</li> <li>➢ VGA Holder</li> </ul>



# GEFORCE RTX<sup>®</sup> 4090



**Midnight Kaleidoscope**

The simple yet sophisticated crystals are now refined to Starlight Black, and there are twinkling stars plucked out of the sky and embedded in the delicate black crystals, making this product a real art piece when ARGB off, and a glimmering kaleidoscope when ARGB on.

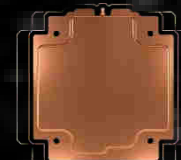


Plug and party. Shine in consistency. Excellent compatibility guaranteed. No need of any software control, the board lighting can be easily synced with any other ARGB-supported devices with just a single cable.



**Gale Hunter Fan**

The brand new Gale Hunter Fan is thicker and bigger in size for strongest airflow. With winglet on the fantail, the airflow will be concentrated and vortex effect can be avoided. The advanced Gale Talon design on the fan blades further brings the air to the thermal module in a smooth and stable pattern.



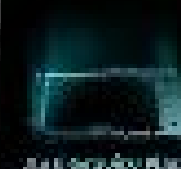
**Vapor Chamber**

By LS (liquid and steam) transformation technology, the Vapor Chamber with antioxidant capacity can take the heat away from the hotspot at highest efficiency, and further reaches maximum heat transition from the interior components to the heat sink.



**Y Formula Fins**

The fins are meticulously molded with turning angles to serve a function of air deflector. This technology leads the air to channel through the fins more smoothly, and enlarges the contact area between the air and the fins.



**Anti-Gravity Plate**

Compact in size, strong in protection. The Anti-Gravity Plate with optimized size offers the strongest protection to the board, preventing the board from bending.



**Composite Heat Pipes**

Combining the 60 and 80 heat pipes, the Composite Heat Pipes stably transfer the heat in the most efficient way not only under daily application, but even under heavy loading conditions such as extreme overclocking.



**Exquisite Metal Backplate**

An absolute blending of tech and art. The Exquisite Backplate comes with golden ratio cut-outs for maximized air venting efficiency. The engraving and gloss highlight on the plate add a flash of brightness in the midnight.