

## GAINWARD GeForce RTX 3090 Phantom+ "Golden Sample"

### Specifications

Process Technology	8nm	Boost Clock	1845 MHz
CUDA Cores	10496	Max. TGP	420W
Memory Amount	24 GB	Memory Clock	9750 MHz
Memory Type	384b DDR6X	Memory Bandwidth	936 (GB/Sec)

### Key Features

- NVIDIA Ampere Architecture
- 19.5Gbps GDDR6X Memory
- 2nd Gen Ray Tracing Cores
- 3rd Gen Tensor Cores
- PCI Express® Gen 4
- NVIDIA DLSS
- NVIDIA® GeForce Experience™
- NVIDIA G-SYNC®
- Game Ready Drivers
- Microsoft DirectX® 12 Ultimate
- Vulkan RT API, OpenGL 4.6
- NVIDIA GPU Boost™
- NVIDIA NVLink™ (NVIDIA SLI®)
- VR Ready
- 3\* DisplayPort 1.4a
- Supports 4K 120Hz HDR, 8K 60Hz HDR and Variable Refresh Rate as specified in HDMI 2.1
- HDCP 2.3



### GAINWARD Unique Features



- ✓ GAINWARD's Expertool II – the whole new design utility adds flexible fan curve control, LED Lighting control and BIOS saving feature for powerful GeForce RTX 3090 card.



- ✓ **Golden Sample™**  
Powered by GAINWARD's unique technology for over-clocking can provide stable operating under all kinds of gaming application.



### Output Support



HDMI : (max. resolution)  
7680x4320@60Hz  
DP \*3 : (max. resolution)  
7680x4320@60Hz

### Dimension

Board: 304mm(L)x138mm(W)  
Cooler : 2.7 slot  
Bracket: 2 slot

### Accessory

1. Manual
2. Power Cable
3. ARGB Sync. Cable
4. Sag Holder

### Minimum System Requirements

Graphics card require:

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- Three 8-pin PCI Express supplementary power connectors
- Minimum 850W or greater system power supply
- Microsoft® Windows® 10 64-bit, Linux 64-bit

GW GeForce RTX 3090 Phantom+ GS\_bar code: 471056224-2874\_P/N: NED3090H19SB-1021M

[www.gainward.com](http://www.gainward.com)

# GAINWARD

# PHANTOM



## GAINWARD superior hardware design

GAINWARD re-designs the entire hardware, that brings higher stability under high current operation (heavy loading operation).

## DrMOS

DrMOS is designed to handle high current with low noise operation and less heat generating.



## ARGB Lighting

Addressable RGB allows gamers to customize each LED color. You can personalize the lighting effects with Expertool Utility



## Metal Plate Kit

Two die casting molded plates fully cover the circuit board and directly attach to all the hot spots on PCB.

- Strong-as-armor protection
- Optimized heat dissipation

The special design of plates also provides best airflow for the third fan in order to achieve the best cooling efficiency.



## Dual BIOS

- 1: Performance mode (factory setting)
- 2: Silence mode

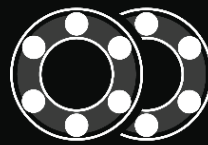
GAINWARD provides two VBIOS for GeForce RTX 3090 Phantom “GS” board. The “Performance mode” VBIOS is set on position #1 of the “dual BIOS switch”. It provides higher performance setting of the board. Users can switch to second VBIOS on position #2 - the “Silence mode”. It provides quieter setting for the board to offer the quietest gaming experience.

## Extreme silent acoustics in heavy loading mode

GAINWARD GeForce RTX 3090 Phantom “GS” with factory over-clocked runs very quiet under full load operation thanks to the new Phantom fan design.

## Extreme cool temperature in heavy loading mode

GAINWARD GeForce RTX 3090 Phantom “GS” with factory over-clocked speed performs extremely low GPU temperature even under heavy loading condition.



## 2-Ball Bearing

- long life span
- IP5X dust resistant
- Lower fan vibration
- Prolonged fan life expectancy



## ZERO RPM

The fans Keep stop rotation while you are experiencing the multimedia application or general workload. The fans start rotation while working on heavier loading such as gaming that the GPU temperature surpasses 60°C



## ARGB SYNC

With a single cable, gamer can synchronize the lighting effect of the Phantom board with the system’s lighting device.



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