

## GAINWARD GeForce RTX 3070 Phantom V1

### Specifications

Process Technology	8nm	Boost Clock	1725 MHz
CUDA Cores	5888	Max. TGP	250W
Memory Amount	8 GB	Memory Clock	7000 MHz
Memory Type	256b GDDR6	Memory Bandwidth	448 (GB/Sec)

### Key Features

- NVIDIA Ampere Architecture
- 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™
- 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
- LHR 25 MH/s ETH hash rate (est.)



### 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 3070 card.



- ✓ GAINWARD's superior hardware design brings higher stability under high current operation (heavy loading operation).



### Output Support



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

### Dimension

Board: 304mm(L)x136mm(W)  
Cooler : 2.7 slot  
Bracket: 2 slot

### Accessory

1. Manual
2. Power Cable
3. A-RGB Sync. Cable

### Minimum System Requirements

Graphics card require:

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- Two 8-pin PCI Express supplementary power connectors
- Minimum 650W or greater system power supply
- Microsoft® Windows® 10 64-bit, Linux 64-bit

# 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 3070 Phantom board.

The "Performance mode" VBIOS is set on position #1 of the "dual BIOS switch". It provides higher performance setting of the board.

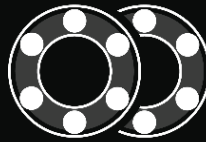
Users can switch to second VBIOS on position #2 - the "Silence mode". It provides quieter setting for the board to offer the quietest gaming experience.

## Extreme silent acoustics in heavy loading mode

GAINWARD GeForce RTX 3070 Phantom runs very quiet under full load operation thanks to the new Phantom fan design.

## Extreme cool temperature in heavy loading mode

GAINWARD GeForce RTX 3070 Phantom 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



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