

GAINWARD GeForce RTX 3090 Ti Phantom

Specifications

Process Technology	8nm	Boost Clock	1860 MHz
CUDA Cores	10752	Max. TGP	450 W
Memory Amount	24 GB	Memory Clock	10500 MHz
Memory Type	384b DDR6X	Memory Bandwidth	1008 (GB/Sec)

Key Features

- NVIDIA Ampere Architecture
- 21Gbps 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
- 7th Gen NVIDIA Encoder
- 5th Gen NVIDIA Decoder

Output Support



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

Dimension

Board: 314mm(L)x137mm(W)
Cooler : 2.7 slot
Bracket: 2 slot

Accessory

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



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 Ti card.



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



Minimum System Requirements

Graphics card require:

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- One 16-pin PCIe 12VHPWR or three 8-pin supplementary power connectors
- Minimum 1000W or greater system power supply
- Microsoft Windows® 11, 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).

Extreme silent acoustics in heavy loading mode

GAINWARD GeForce RTX 3090 Ti 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 3090 Ti Phantom performs extremely low GPU temperature even under heavy loading condition.



ARGB Lighting

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



ARGB SYNC

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



U-Type Heat Pipe

The heat pipes are specially formed into a double-U shape to enlarge the heat dissipation area. The efficiency of heat transfer is much higher than traditional heat pipe design. (patent pending)



Metal Plate Kit

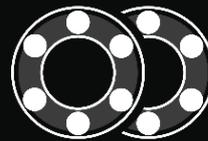
Two die casting molded plates fully cover the circuit board and directly attach to all the hot spots on PCB.

- 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.



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 Ti card.



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



Dual BIOS

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

GAINWARD provides two VBIOS for GeForce RTX 3090 Ti 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.

DrMOS

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

GW GeForce RTX 3090 Ti Phantom_bar code: 471056224-3185

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