

GAINWARD GeForce RTX 2070 SUPER Phantom "Golden Sample"

Specifications

Process Technology	12nm	Boost Clock	1815 MHz
CUDA Cores	2560	Max. TGP	215W
Memory Amount	8 GB	Memory Clock	7000 MHz
Memory Type	256b GDDR6	Memory Bandwidth	448 (GB/Sec)

Key Features

- NVIDIA Turing Architecture, 12nm IC Process
- 14Gbps GDDR6 Memory
- 53T RTX-OPS
- Real-Time Ray Tracing
- Tensor Cores
- NVIDIA® GeForce Experience™
- NVIDIA Ansel
- NVIDIA Highlights
- NVIDIA G-SYNC®-Compatible
- Game Ready Drivers
- Microsoft® DirectX® 12 API, Vulkan API, OpenGL 4/5
- NVIDIA GPU Boost™
- NVIDIA NVLink™ (NVIDIA SLI®)
- VR Ready
- 3* DisplayPort 1.4, HDMI 2.0b
- HDCP 2.2
- Maximum Total Board Power – 215W



GAINWARD Unique Features

Expertool //



- ✓ GAINWARD's Expertool II – the brand-new utility adds flexible fan curve control and BIOS saving feature for powerful
- ✓ GeForce RTX 2070 SUPER 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)
4096x2160@60Hz
DP *3 : (max. resolution)
7680x4320@60Hz

Dimension

Board: 292mm(L)x130mm(W)
Cooler : 2.7 slot
Bracket: 2 slot

Accessory

1. Manual
2. Power 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 (November 2018 or later), Windows® 7 64-bit, Linux 64-bit

GW GeForce RTX 2070s Phantom GS_bar code: 471056224-1006

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

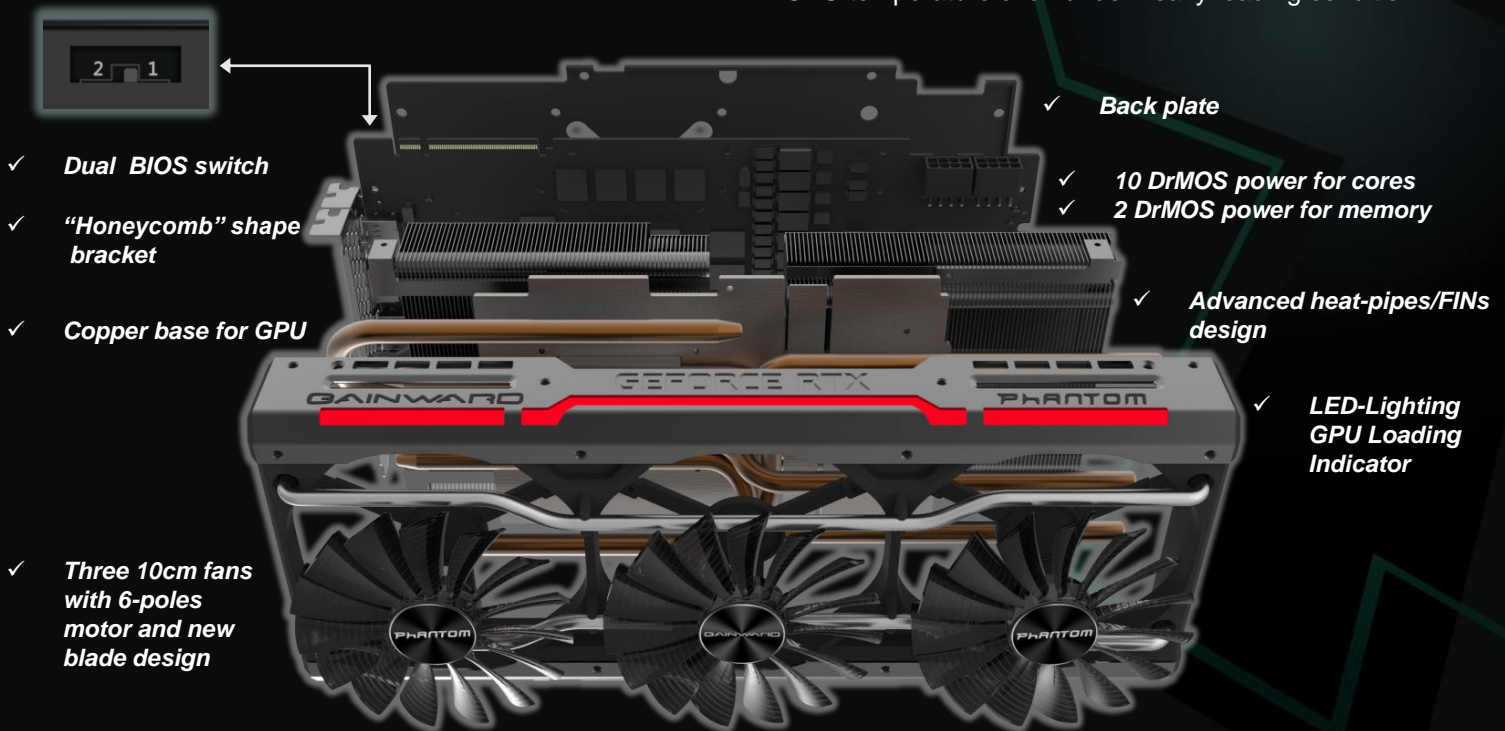
DrMOS is designed to handle high current with low noise operation and less heat generating.

Extreme silent acoustics in heavy loading mode

GAINWARD GeForce RTX 2070 SUPER 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 2070 SUPER Phantom “GS” with factory over-clocked speed performs extremely low GPU temperature even under heavy loading condition.



Dual BIOS (1: OC, 2: Standard/Zero RPM)

GAINWARD provides two VBIOS for GeForce RTX 2070 SUPER Phantom “GS” board.

Factory over-clocking VBIOS is set on position #1 of the “dual BIOS switch”.

Users can switch to second VBIOS on position #2, standard-clock setting” with “Zero RPM” fan control to enjoy the quietest gaming experience as well as low GPU temperature.

6-Poles Fan Motor

6-poles fan motor vs 4-poles motor (normal fan)

- Smaller hub size that increases 10% efficiency area of the fan
- Lower power consumption - up to 30% current reduce
- Smoother spinning – lower electric noise, lower vibration (longer lifespan)

Expertool II

GAINWARD’s Expertool II – the brand-new utility adds flexible and individual fan curve control and VBIOS saving feature for powerful GeForce RTX 2070 SUPER card.

GW GeForce RTX 2070s Phantom GS_bar code: 471056224-1006

www.gainward.com

©2019 NVIDIA Corporation. All Rights Reserved. NVIDIA, the NVIDIA logo, GeForce, GeForce Experience, G-SYNC, NVIDIA GPU Boost, and NVLink are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. All other trademarks and copyrights are the property of their respective owners.

*Subject to change without notice.