

GAINWARD

Premium Brand of #1 NVIDIA Board Partner

GAINWARD GeForce GTX 1070 PHOENIX "Golden Sample"

Specifications

Process Technology	16nm	Base Clock	1632 MHz
Processor Cores	1920 cores	Boost Clock	1835 MHz
Memory Amount	8GB	Memory Clock	4000 MHz
Memory Type	256b GDDR5	Memory Bandwidth	256 (GB/Sec)

Key Features

- NVIDIA Pascal architecture, 8GB GDDR5 memory
- NVIDIA GPU Boost 3.0
- 16nm FinFET process
- NVIDIA Ansel technology
- Simultaneous Multi-Projection
- NVIDIA GameWorks technology
- NVIDIA VRWorks technology
- NVIDIA Adaptive Vertical Sync
- NVIDIA G-SYNC ready
- Microsoft DirectX 12 support
- NVIDIA PhysX technology
- Vulkan API support
- NVIDIA SLI ready with HB Bridge support
- PCI Express 3.0 support
- OpenGL 4.5 and OpenCL support
- 1* Dual-link DVI, 1* HDMI (v2.0), 3* DisplayPort (v1.3/1.4 ready)



Output Support



HDMI : (max. resolution)
4096x2160@60Hz
DP *3 : (max. resolution)
4096x2160@60Hz
DVI-D : (max. resolution)
2560x1600@60Hz

Dimension

Board: 285mm(L)x133mm(W)
Cooler : 2.5 slot
Bracket: 2 slot

Accessory

1. Driver Disc
2. Manual
3. Power cable



Gainward Unique Features



- ✓ Factory over-clocked



- ✓ Extreme silent acoustics in 3D heavy loading under factory over-clocked speed



- ✓ Extreme cool in 3D heavy loading under factory over-clocked speed

Expertool II



- ✓ Gainward's Expertool II – the brand-new utility adds flexible fan curve control and BIOS saving feature for powerful GeForce GTX 1070 card.

Minimum system requirements

Graphics card require:

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- One 8-pin PCI Express supplementary power connector
- Minimum 500W or greater system power supply
- Microsoft Windows 10, 8, 7

GW GTX1070_Phoenix_GS_bar code: 426018336-3682

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PHOENIX



Gainward superior hardware design

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

6 Phases PWM for GPU Cores

Gainward uses 6 phases for GPU cores that helps to supply enough fuel to the 3D graphics engine. This design minimizes current loading and heat generation for each phase to stabilize the voltage level, the overall efficiency can be improved, the choke noise and EMI noise also be reduced.

DrMOS

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

Dual BIOS (1: OC, 2: standard)

Gainward provides two VBIOS for GeForce GTX 1070 Phoenix board. Factory over-clocking VBIOS is set on position 1 of the "dual BIOS switch". Users can over-clocking the Phoenix board with confidence thanks to the "standard-clock setting" in the second VBIOS with position 2 of the "dual BIOS switch" whenever you need.

Extreme silent acoustics in heavy loading mode

Gainward GeForce GTX 1070 Phoenix "GS" with factory over-clocked speed gets much quieter than founders edition board under full load operation.

Extreme cool temperature in heavy loading mode

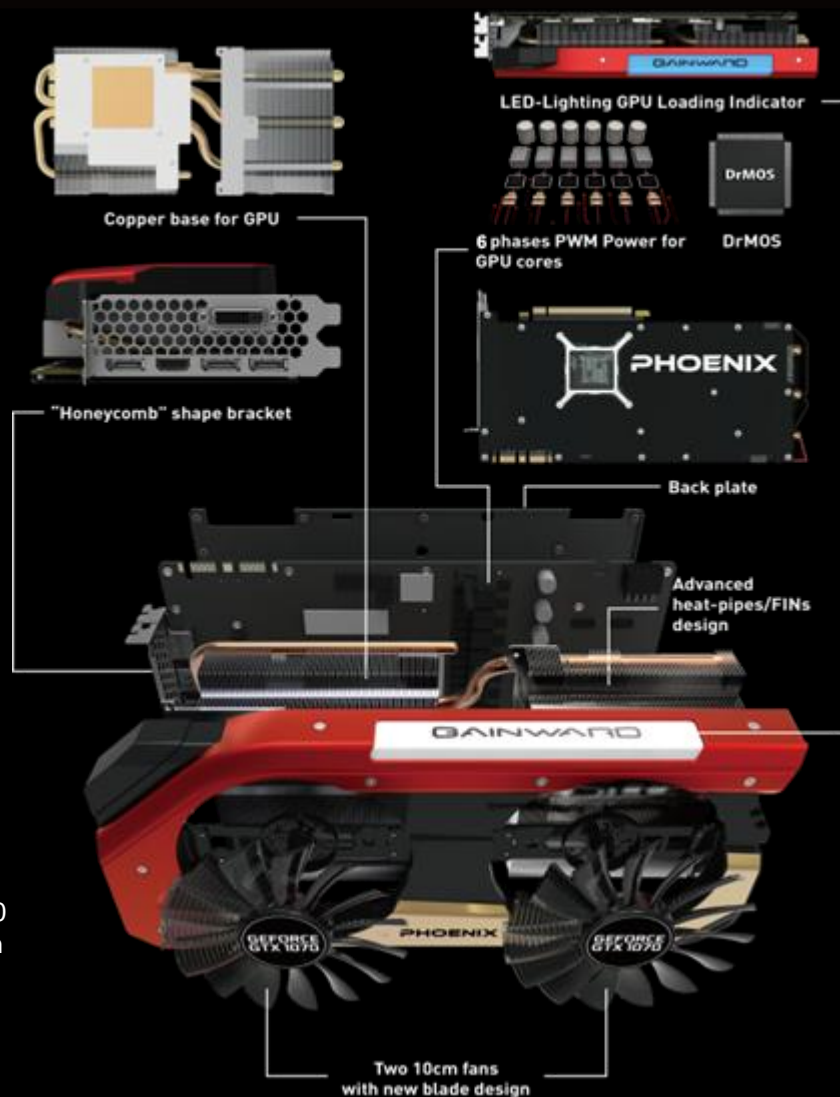
Gainward GeForce GTX 1070 Phoenix "GS" with factory over-clocked speed performs extremely lower GPU temperature than founders edition board with reference clock.

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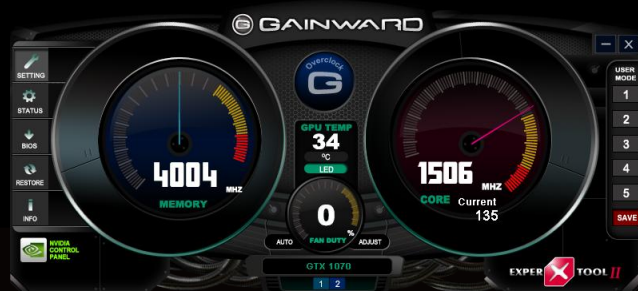
NEW PHOENIX COOLER DESIGN

A brand new cooler design brings Extreme Silent/Extreme Cool for Gainward GeForce GTX 1070 Phoenix board.



Expertool II

Gainward's Expertool II – the brand-new utility adds flexible fan curve control and BIOS saving feature for powerful GeForce GTX 1070 card.



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