



# GAINWARD

Premium Brand of #1 NVIDIA Board Partner

## GAINWARD GeForce GTX 1080 PHOENIX "Golden Sample-Goes Like Hell"

### Specifications

Process Technology	16nm	Base Clock	1746 MHz
Processor Cores	2560 cores	Boost Clock	1885 MHz
Memory Amount	8GB	Memory Clock	5250 MHz
Memory Type	256b GDDR5X	Memory Bandwidth	336 (GB/Sec)

### Key Features

- NVIDIA Pascal architecture, 8GB GDDR5X 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

### PHOENIX



### 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 1080 card.

### Minimum system requirements

Graphics card require:

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- 8-pin + 6-pin PCI Express supplementary power connectors
- Minimum 500W or greater system power supply
- Microsoft Windows 10, 8, 7

GW GTX1080\_Phoenix\_GLH\_bar code: 426018336-3668



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# PHOENIX



### NEW PHOENIX COOLER DESIGN

A brand new cooler design brings Extreme Silent/Extreme Cool for Gainward GeForce GTX 1080 Phoenix board.

## Gainward superior hardware design

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

## 8 + 2 PWM Power

Gainward uses 8 phases for GPU core and 2 phases for memory chips that helps to supply enough fuel to the 3D graphics engine and GDDR5X chips. 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)

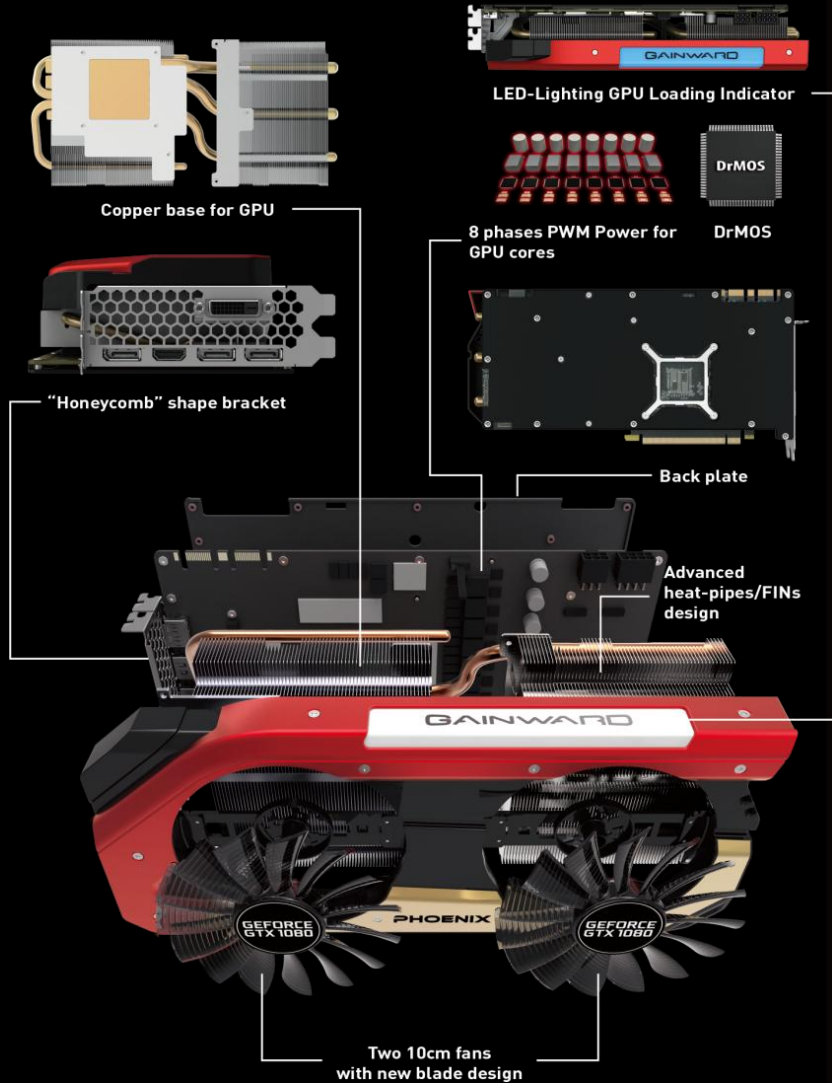
Gainward provides two VBIOS for GeForce GTX 1080 Phoenix board. Factory over-clocking VBIOS is set on position 1 of the "dual BIOS switch". Users can over-clocking the Phoenix board with confidence thanks to the "standard-clock setting" in the second VBIOS with position 2 of the "dual BIOS switch" whenever you need.

## Extreme silent acoustics in heavy loading mode

Gainward GeForce GTX 1080 Phoenix "GLH" with factory over-clocked speed gets much quieter than founders edition board under full load operation.

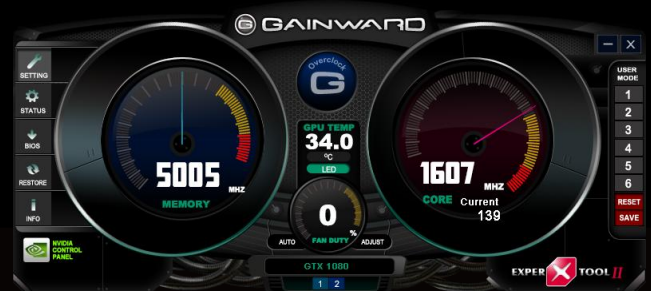
## Extreme cool temperature in heavy loading mode

Gainward GeForce GTX 1080 Phoenix "GLH" with factory over-clocked speed performs extremely lower GPU temperature than founders edition board with reference clock.



## Expertool II

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**amer's Spirit!**  
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