

GAINWARD

Premium Brand of #1 NVIDIA Board Partner

GAINWARD GeForce GTX 1080 Ti PHOENIX "Golden Sample"

Specifications

Process Technology	16nm	Base Clock	1556 MHz
Processor Cores	3584 cores	Boost Clock	1670 MHz
Memory Amount	11GB	Memory Clock	5500 MHz
Memory Type	352b GDDR5X	Memory Bandwidth	484 (GB/Sec)

Key Features

- NVIDIA Pascal architecture, 11GB 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-D, 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 1080 Ti card.

Minimum system requirements

Graphics card require:

- PCI Express-compliant motherboard with two and half width x16 graphics slot
- Two 8-pin PCI Express supplementary power connectors
- Minimum 600W or greater system power supply
- Microsoft Windows 10, 8, 7

GW GTX1080Ti_Phoenix_GS_bar code: 426018336-3934

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PHOENIX



NEW Phoenix Cooler Design

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

Gainward superior hardware design

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

10 + 2 PWM Power

Gainward uses 10 phases for GPU cores 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 Ti 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 Ti Phoenix "GS" with factory over-clocked speed can keep silent under full load operation.

Extreme cool temperature in heavy loading mode

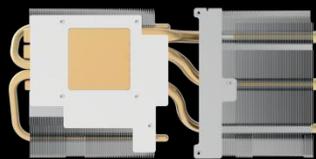
Gainward GeForce GTX 1080 Ti Phoenix "GS" with factory over-clocked speed performs extremely low GPU temperature under heavy loading operation.



LED-Lighting GPU Loading Indicator



10 phases PWM power for GPU cores



Copper base for GPU



"Honeycomb" shape bracket



Back plate



Advanced heat-pipes/FINs design



Two 10cm fans
With new blade design

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