ComX Computers
Product Specification Sheet

GV-N680OC-2GD

GIGABYTE nVidia GeForce GTX680 OC 2048MB GDDR5 Graphics Card

Product Overview

GIGABYTE nVidia GeForce GTX680 OC - 2048MB GDDR5, 256-Bit Memory Bus, PCI Express 3.0, 1x DVI-I, 1x DVI-D, 1x HDMI, 1x Display Port, HDCP Compliant, Core: 1071MHz (BASE)/ 1137MHz (BOOST)/ Memory: 6008MHz, DirectX 11, OpenGL, nVidia CUDA & PhysX Technology, Win Vista/ 7 Certified







Specifications

Features:

- Powered by NVIDIA GeForce GTX 680 GPU
- Integrated with the first 2048MB GDDR5 memory and 256-bit memory interface
- Features Dual-link DVI-I/ DVI-D / HDMI / DisplayPort
- Boost clock OC to 1137MHz
- Support NVIDIA 3D Vision Surround and SLI technologies
- System power supply requirement: 550W

PhysX Technology

NVIDIA PhysX is the next big thing in gaming!Delivering physics in games is no easy task. It's an extremely compute-intensive environment based on a unique set of physics algorithms that require tremendous amounts of simultaneous mathematical and logical calculations. The best way to get real-time physics, such as explosions that cause dust and debris, characters with life-like motion or cloth that drapes and tears naturally is with an NVIDIA PhysX-ready GeForce processor. PhysX software is

widely adopted by over 150 games, is used by more than 10,000 registered users and is supported on Sony Playstation 3, Microsoft Xbox 360, Nintendo Wii and PC. PhysX technology will take gaming to a whole new level.

CUDA Technology
NVIDIA CUDA technology unlocks the power of the hundreds of cores in your NVIDIA GeForce graphics processor (GPU) to accelerate some of the most performance hungry computing applications. The CUDA technology already adopted by thousands of programers to speed up those performance hungry computing applications.

SLI Technology
Delivers up to 2X the performance of a single GPU configuration for unparalleled gaming experiences by allowing two graphics cards to run in parallel. The must-have feature for performance PCI Express graphics, SLI dramatically scales performance on 60 top PC games.

NVIDIA 3D Vision
NVIDIA 3D Vision brings a fully immersive stereoscopic 3D experience to the PC. A combination of high-tech wireless glasses and advanced software 3D Vision transforms hundreds of PC games into full stereoscopic 3D. Users can even watch 3D movies and 3D digital photographs in crystal-clear quality.

Microsoft Window7
Microsoft Windows 7 is the next generation operating system that will mark a dramatic improvement in the way the OS takes advantage of the graphics processing unit (GPU) to provide a more compelling user experience. By taking advangate of the GPU for both graphics and computing, Windows 7 will not only make todays's PCs more visual and more interactive but also ensure that they have the speed and responsiveness customers want.

RoHS Compliant
As a citizen of the global village, GIGABYTE exert ourselves to be a pioneer in environment care. Give the whole of Earth a promise that our products do not contain any of the restricted substances in concentrations and applications banned by the RoHS Directive, and are capable of being worked on at the higher temperatures required for lead free solder. One Earth and GIGABYTE Cares!

GPU Temperature 5%~10% down
Ultra Durable VGA board provides dramatic cooling effect on lowering both GPU and memory temperature by doubling the copper inner layer of PCB. GIGABYTE Ultra Durable VGA can lower GPU temperature by 5% to 10%.

Overclocking Capability 10%~30% Up
Ultra Durable VGA board reduces voltage ripples in normal and transient state, thus effectively lowers noises and ensures higher overclocking capability. GIGABYTE Ultra Durable VGA graphic accelerators improve overclocking capability by 10% to 30%.

Power Switching Loss 10%~30% Down
Ultra Durable VGA board allows more bandwidth for electron passage and reduces circuit impedance. The less circuit impedance, the more stable flow of current and can effectively improve power efficiency. GIGABYTE Ultra Durable VGA can lower power switching loss by 10% to 30%.

"Triangle Cool" Technology
GIGABYTE introduces the latest exclusive "Triangle Cool" Technology to reach a better cooling performance. The latest patent pending technology combines fin with clip module in a special triangle shape. With the original anti-turbulence structure plus the new triangle cooling design, it enhances the efficiency of heat dissipation dramatically by minimizing the flow of turbulence between fans. Therefore, the "Triangle Cool" Technology provides a more efficient air flow for the cooling system.

Specifications:

Chipset	GeForce GTX 680
PCB Form	ATX
Core Clock	Base clock: 1071 MHz / Boost clock: 1137 MHz
Shader Clock	N/A
Memory Clock	6008 MHz
Process Technology	28 nm
Memory Size	2048MB
Memory Bus	256 bit
Card Bus	PCI-E 3.0
Memory Type	GDDR5
DirectX	11
OpenGL	4.2
I/O	HDMI * 1
	DVI-I * 1
	DVI-D*1
	DisplayPort *1
Digital max resolution	2560 x 1600
Analog max resolution	2048 x 1536
Multi-view	4
Tools	N/A
Card size	H=43 mm, L=275 mm, W=136.6 mm
Power requirement	550 W

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/GV-N680OC-2GD-GIGABYTE-nVidia-GeForce-GTX680-OC-2048MB-GDDR5-Graphics-Card-p-60706.php

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