ComX Computers
Product Specification Sheet

MS-N680GTX-LIGHTING

MSI nVidia Geforce N680GTX-Lightning Graphics Card

Product Overview

MSI nVidia Geforce N680GTX-Lightning Graphics Card, 2GB 16x PCI-E (DVI-I x1, DVI-D x1, DP x1, HDMI x1) DDR5 Memory, 256Bit, GPU Fan, Dual Monitor Support











Specifications

Overview:

Video Output Function

- Dual-link DVI-I x 1
- Dual-link DVI-D x 1
- DisplayPort x 1
- HDMI x 1

Bundle MSI developed driver and utilities

- MSI Live Update Series(Live Graphics Card BIOS & Live Graphics Card Driver)
Automatically online download & update Graphics Card BIOS & Drivers, reduce the risk of getting the wrong files, and never have the trouble on web site searching.
- MSI Graphics Card Driver
- MSI StarOSD
StarOSD can monitor system information, adjust monitor figuration, and overclock system.
- MSI Dual Core Center
- MSI Live
MSI Live including all real time life information you need, such as Live MSI Product News, Live Daily Information, Live Personal Schedule Manager, Live Search and more.
- Adobe Acrobat Reader
- Microsoft DirectX
- Norton Internet Security 2008 60 days Trial
-Blocks online identity theft by phishing Web sites
-Detects and eliminates spyware
-Removes viruses and Internet worms automatically
-Protects against hackers

Features:

- Unlocked Digital Power
- Unlocked BIOS: One click to unlock all protections for extreme overclocking
- Digital PWM Controller: More stable and precise voltage by digital signal
- Enhanced Power Design: 2X Power output for maximum OC potential
- GPU Reactor
- An add-on device on the back of GTX 680 Lightning (Behind GPU) for the overclocking stability
- Provide 200% higher power capacity and eliminate power noise (ripple)
- Xtreme Thermal
- Dust Removal technology on Twin Frozr IV keeps dust out for the best thermal condition
- Dual Form-in-one Heatsinks provide better heat dissipation and strengthen the structure
- Military Class III Components
- Meet MIL-STD-810G standard to ensure the best stability and quality.
- Adopt CopperMOS, Hi-c CAP, Golden SSC, and Dark Solid CAP
- PCI Express Gen 3 Standard
This advanced manufacturing technology reduces operating temperatures and improves performance, and when combined with the latest connectivity standard it can also deliver a staggering 32GB/s of bandwidth with compatible CPUs and mainboards, this means an even better gaming experience for gamers
- Afterburner
Afterburner co-development by MSI and Rivatuner, MSI releases the ultimate graphics card utility "Afterburner". This utility enables all MSI graphics cards users to boost performance and to monitor all kinds of critical information in real-time.

Afterburner is a completely free utility which is compatible with almost all MSI graphics cards.

- MSI Solid Capacitor Graphic Cards

MSI Solid Capacitor Graphic Card MSI Graphics Card products utilities high quality solid capacitor. For the gamers and high-end users, this feature not only means that product has better quality components within, but also provide much stronger support while users want to engage in hard-core tuning.

- HDMI + DVI Output

HDMI + DVI Output HDMI and DVI are the most comprehensive used interfaces for high definition video display. MSI adopts two interfaces to provide a complete output solution for users to enjoy the latest HD video such as blu-ray movie.

- HDMI Support

MSI graphics cards offer the HDMI functionality to provide access to premium digital content. HDMI enables gaming enthusiasts to seamlessly connect to their LCD monitor to bring the ultimate multimedia experience. (Only 1 single HDMI cable is required while streaming audio/video data to flat-panel display devices, such as Plasma/LCD TVs, or projector.)

- Blu-ray and HD DVD Support

Both support the latest specifications of Blu-ray and HD DVD(High Definition DVD). It comes with the latest GPU and Memory superior processing performance in which users can easily enjoy the high-definition video of 1920x1080(1080p/i).

- Meet RoHS regulations

MSI products are the first to be in conformity of the EU's RoHS(Restriction of Hazardous Substances) regulations, reducing heavy metals and toxic materials in the products. This is an effort made for the Earth, and essentially for a clean future.

- NVIDIA 3D Vision

NVIDIA 3D Vision technology is a combination of Graphics Processor Units (GPU), specialized 3D glasses, software, and certified displays and projectors that deliver an immersive 3D experience on your PC or workstation. For a complete list of system requirements for NVIDIA 3D Vision Technology, Click here.

- Live Update 5

MSI Live Update 5 is a single utility software that automatically checks BIOS, driver and utility updates and installs for you, which can save your time for searching and lower the risk while updating.

- NVIDIA CUDA Technology

NVIDIA CUDA technology is the world's only C language environment that enables programmers and developers to write software to solve complex computational problems in a fraction of the time by tapping into the many-core parallel processing power of GPUs. With millions of CUDA -capable GPUs already deployed, thousands of software programmers are already using the free CUDA software tools to accelerate applications-from video and audio encoding to oil and gas exploration, product design, medical imaging, and scientific research. Free download TMPGEnc 4.0 Express Free download badaboom media converter

- NVIDIA SLI Technology}

Delivers up to 2x the performance of a single GPU configuration for unequaled gaming experiences by allowing two cards to run in parallel. The must-have feature for performance PCI Express graphics, SLI technology dramatically scales performance on today's hottest games.

- HDMI convertible output

Dual-link DVI convertible output supports Video/Audio signal integration through DVI to HDMI interface, which drivers resolution of a digital display up to 1920x1200 or higher.

- NVIDIA PureVideo HD Technology

Blu-ray and HD DVD movies are bringing a new level of movie-viewing experience; with high-definition image quality far surpassing standard-definition DVDs. NVIDIA PureVideo HD2 technology provides unsurpassed Blu-ray and HD DVD movie picture quality.

- PhysX

PhysX is designed specifically for hardware acceleration by powerful processors with hundreds of cores. Combined with the tremendous parallel processing capability of the GPU, PhysX will provide an exponential increase in physics processing power and will take gaming to a new level delivering rich, immersive physical gaming environments with features such as:

- Explosions that cause dust and collateral debris
- Characters with complex, jointed geometries for more life-like motion and interaction
- Spectacular new weapons with incredible effects
- Cloth that drapes and tears naturally

- Dense smoke & fog that billow around objects in motion

Specifications:

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Product Code	MS-N680GTX-LIGHTING
Specifications	
Graphics Engine	GeForce GTX 680
Interface	PCI Express x16 3.0
Memory Type	GDDR5
Memory Size(MB)	2048
Memory Interface	256 bits
Core Clock Speed(MHz)	1110 (Boost Clock: 1176)
Sharder Clock Speed (MHz)	N/A
Memory Clock Speed(MHz)	6008 (3004x2)
Memory Bandwidth(GB/sec)	N/A
Texture Fill Rate(billion/sec)	N/A
DVI Output	2
D-SUB Output	N/A
HDMI-Output	1
Mini HDMI-Output	N/A
DisplayPort	1
Mini DisplayPort	N/A
TV-Output	N/A
VIVO(Video-in/out)	N/A
HDTV Support	N/A
HDCP Support	Y
HDMI Support	Y
Dual-link DVI	Y
Display Output (Max Resolution)	2560x1600
RAMDACs	400
DirectX Version Support	11
OpenGL Version Support	4.2
CrossFire Support	N/A
SLI Support	Y
3-way SLI	Y
HyperMemory Tech.	N/A

TurboCache tech.	N/A
Card Dimension(mm)	280x129x49.15 mm(w/ GPU Reactor)

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/MS-N680GTX-LIGHTING-MSI-nVidia-Geforce-N680GTX-Lightning-Graphics-Card-p-65176.php

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