ComX Computers
Product Specification Sheet

N690GTX-P3D4GD5

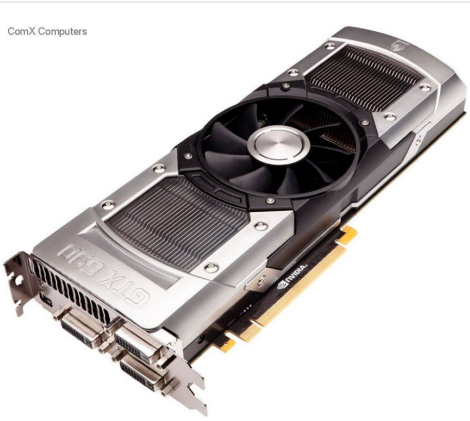
MSI nVidia GeForce GTX690 4 512-Bit

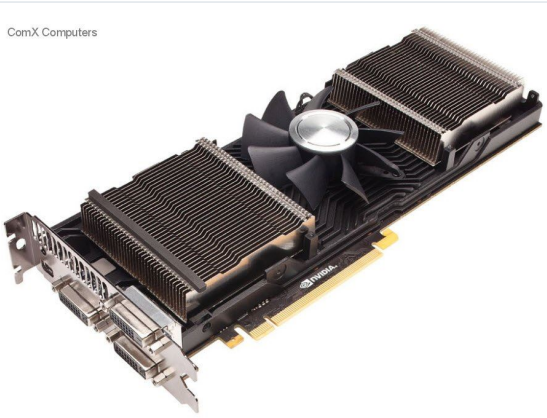
Product Overview

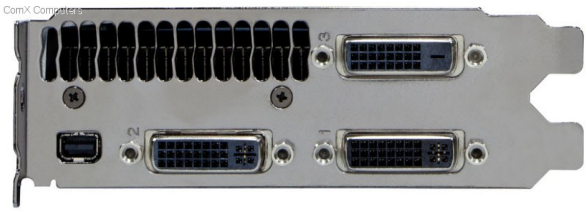
MSI nVidia GeForce GTX690 PCI-Express x16 3.0, 4GB GDDR5, 512-Bit, GPU:915MHz / Mem:6008MHz, DVI x3, Mini Display Port x1, DirectX 11, Dual Slot ATX, MSI Afterburner, All Solid Capacitors, Blu-Ray Support, NVIDIA CUDA, NVIDIA Pure Video HD, PhysX by NVIDIA











Specifications

Features:

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. For gamers, this means an even better gaming experience with 40% more performance than previous generation GeForce GTX 580 graphics cards.

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.

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.

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:

Graphics Engine	GeForce GTX 690
Interface	PCI Express x16 3.0
Memory Type	GDDR5
Memory Size(MB)	4096
Memory Interface	512 bits (256-bit per GPU)
Core Clock Speed(MHz)	915 (Boost Clock: 1019)
Memory Clock Speed(MHz)	6008
Memory Bandwidth(GB/sec)	N/A
Texture Fill Rate(billion/sec)	N/A
DVI Output	3 (DVI-I*2, DVI-D*1)
D-SUB Output	N/A
HDMI-Output	N/A
Mini HDMI-Output	N/A
DisplayPort	N/A
Mini DisplayPort	1
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 (Quad SLI)
3-way SLI	N/A
HyperMemory Tech.	N/A
TurboCache tech.	N/A
Card Dimension(mm)	280x111x34mm
Weight	N/A

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/N690GTX-P3D4GD5-MSI-nVidia-GeForce-GTX690-4-512-Bit-p-61442.php

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