ComX Computers
Product Specification Sheet

MS-N450GTS-MD1GD3

MSI N450GTS-MD1GD3 1GB DDR3 128Bit Graphics Card

Product Overview

MSI N450GTS-MD1GD3, 1GB 16X PCI-E (DVIx 1, HDMI, 1x DB15) - DX11, DDR3, 128Bit, GPU Fan, Dual Mon Support, 450Watt



Specifications

Features:

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.)

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.

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 DDRIII superior processing performance in which users can easily enjoy the high-definition video of 1920x1080(1080p/i).

PCI Express 2.0 Support
Designed to run perfectly with new PCI Express 2.0 bus architecture, offering a future proofing bridge to tomorrow's most bandwidth-hungry games and 3D applications by maximizing the 5GT/s PCI Express 2.0 bandwidth (twice that of first

generation PCI Express). PCI Express 2.0 products are fully backwards compatible with existing PCI Express motherboards for broadest support.

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.

HDCP Support
The HDCP provides a robust, cost-effective and transparent method for transmitting and receiving digital entertainment similar to DVI/HDMI-compliant digital displays. HDCP encrypts the date transmitted between the DVI/HDMI connector on the graphics adapter and the display.

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.

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.

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.

PhysX
PhysX is designed specifically for hardware acceleration by powerful processors with hundreds of cores.

Specifications:

Graphics Engine	GeForce GTS 450
Bus Standard	PCI Express x16 2.0
Memory Type	DDR3
Memory Size(MB)	1024
Memory Interface	128bits
Core Clock Speed(MHz)	700
Memory Clock Speed(MHz)	1800

Memory Bandwidth(GB/sec)	N/A
Texture Fill Rate(billion/sec)	N/A
DVI Output	1
D-SUB Output	1
HDMI-Output	1
Mini HDMI-Output	N/A
DisplayPort	N/A
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	4.1
CrossFire Support	N/A
SLI Support	Y
3-way SLI	N/A
HyperMemory Tech.	N/A
TurboCache tech.	N/A
Card Dimension(mm)	146x104x35mm
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/MS-N450GTS-MD1GD3-MSI-N450GTS-MD1GD3-1GB-DDR3-128Bit-Graphics-Card-p-49150.php

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