



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GV-NX85T512HP. You'll find the answers to all your questions on the GIGABYTE GV-NX85T512HP in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual GIGABYTE GV-NX85T512HP**  
**User guide GIGABYTE GV-NX85T512HP**  
**Operating instructions GIGABYTE GV-NX85T512HP**  
**Instructions for use GIGABYTE GV-NX85T512HP**  
**Instruction manual GIGABYTE GV-NX85T512HP**

**Declaration of Conformity**  
 Vb, Manufacturer/Importer  
**G.B.T. Technology Trading GmbH**  
 Aueschlagger Weg 41, 19 2037 Hamburg, Germany  
 declare that the product  
 (description of the apparatus, system, installation to which it refers)  
**VGA Card**  
**GV-NX85T512HP**  
 is in conformity with  
 (reference to the specification under which conformity is declared)  
 in accordance with 89/338 EEC EMC Directive

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**Manual abstract:**

17, 2007 VGA Card GV-NX85T256H Apr. @@11, 2007 VGA Card GV-NX85T256HP Jun. @@@@@"GBT"). No part of this manual may be reproduced or transmitted in any form without the expressed, written permission of GBT. Trademarks Third-party brands and names are the property of their respective owners. Notice Please do not remove any labels on VGA card, this may void the warranty of this VGA card Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet. The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information contained herein. Macrovision corporation product notice: This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited. English Table of Contents 1. Introduction ..

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. 34 GV-NX85T Series Graphics Accelerator -2- 1. Introduction 1.1. Features Powered by NVIDIA® GeForce™ 8500 GT Graphics Processing Unit (GPU) Supports PCI Express x16 Integrated with 256 MB GDDR2 memory (For GV-NX85T256H only) Integrated with 512 MB GDDR2 memory (For GV-NX85T512HP only) Integrated with 256 MB GDDR3 memory (For GV-NX85T256HP only) Supports DirectX 9.0c and DirectX 10 Supports AV / S-Video / TV-Out and HDTV output Supports D-sub connector (The GV-NX85T256HP require adapter to support this function) · Supports 1 DVI-I connector (For GV-NX85T256H/GV-NX85T512HP only) · Supports 2 DVI-I connectors (For GV-NX85T256HP only) · Supports HDCP (High-bandwidth Digital Content Protection) technology ······ English 1.2. Minimum System Requirements · Hardware - Intel® Pentium® 4 or AMD Athlon™ - 128 MB of system memory; 2 GB or more for best performance - Optical drive for software installation (CD-ROM or DVD-ROM drive) - A power supply with 450-watt is recommended · Operating System - Windows® Vista - Windows® XP with Service Pack 2 (SP2) - Windows® XP Professional x64 Edition - Windows® 2000 (Note) SLI technology requires a PCI Express motherboard with two x16 physical connectors. Graphics cards working in an SLI configuration must be with the same model name (i.e.

GV-NX85T512HP) and from the same vendor (i.e. GIGABYTE TECHNOLOGY). -3Introduction English 2. Hardware Installation 2.1. Board Layout 1. GV-NX85T256H/GV-NX85T512HP SLI connector TV-Out D-Sub Monitor Connector (15-pin) DVI-I Connector HDTV Y Pr Pb/AV Output Projector S-Video Output or TV-Out or NTSC / PAL TV NTSC / PAL TV Projector D-Sub Monitor Connector (15-pin) or Analog LCD Monitor Analog Monitor D-Sub Output DVI-I Connector DVI Output Digital LCD Monitor Or D-Sub Output DVI-I to D-Sub Adapter Analog LCD Monitor Analog CRT Monitor GV-NX85T Series Graphics Accelerator -4- English 2. GV-NX85T256HP SLI connector TV-Out DVI-I Connector 1 DVI-I Connector 2 HDTV Y Pr Pb/AV Output Projector S-Video Output OR DVI-I Connector 1 TV-Out OR NTSC / PAL TV NTSC / PAL TV Projector DVI Output DVI-I Connector 2 Digital LCD Monitor OR D-Sub Output DVI-I to D-Sub Adapter Analog LCD Monitor Analog Monitor -5- Hardware Installation English Expansion cards contain very delicate Integrated Circuit (IC) chips. @@1.

Turn off your computer and unplug power supply. 2. Use a grounded wrist strap before handling computer components. @@3. @@@@Inspect the card carton for obvious damage.

Shipping and handling may cause damage to your card. @DO NOT APPLY POWER TO YOUR SYSTEM IF IT HAS BEEN DAMAGED ON THE CARD. @@@Hardware Installation Installing Your graphics card. Now that you have prepared your computer, you are ready to install your graphics accelerator card. To remove the existing graphics card: 1.

Power off the computer and monitor, then disconnect the display cable from the back of your computer. English 2. Remove the computer cover. If necessary, consult your computer's manual for help in removing the cover. 3. Remove any existing graphics card from your computer. Or, if your computer has any on-board graphics capability, you may need to disable it on the motherboard. For more information, please see your computer documentation. -7- Hardware Installation English To install your new graphics card: 1. Locate one PCI Express x16 slot.

If necessary, remove the metal cover from the slot; then align your graphics card with the PCI Express x16 slot, and press it in firmly until the card is fully seated. \* Please make sure that the gold edge connectors of the graphics card is securely inserted. 2. Replace the screws to fasten the card in place, and replace the computer cover. 3. Plug the display cable into your card; then turn on the computer and monitor. If your graphics card came with a DVI-I connector, you can connect a flat panel display to the appropriate connector, as shown below. To TV/VCR To D-Sub Monitor To Flat Panel Display You are now ready to proceed with the installation of the graphics card driver. Please refer to next chapter for detailed instructions. GV-NX85T Series Graphics

Accelerator -8- GIGABYTE Video Adapter for Nvidia Graphics Cards English AV Out S-Video Out Connect to the TV-Out port on the graphics card. HDTV Component (Y+Pr+Pb) (1) Connecting HDTV Connect your HDTV cables to the video adapter according to the corresponding color. (Y= Green, Pr= Red, Pb= Blue) (2) Connecting S-Video If your TV has a S-Video connection, connect the SVideo cable from your TV to the S-Video Out port on the adapter. (3) Connecting AV Output If your TV has a Composite video connection, you can connect the RCA cable from your TV to the AV Out port on the adapter. -9- Hardware Installation English How NVIDIA® SLITM (Scalable Link Interface) technology works: In an SLI configuration, two SLI-ready graphics cards of the same model and the same manufacturers are connected together via SLI bridge connector in a system that provides two PCI Express x16 slots to scale graphics performance.



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@@@@@@@Then you can follow the guides to setup your graphics card driver.

Windows® XP Driver and Utilities Installation 3.1.1. @@@@Choose I accept the agreement and click the Next button. Step 3. Click the Next button. Installing the components. Step 4. @Driver Installation A. @The following is the step-by-step installation guide. @(There is a driver CD disk that came with yator Display A variety of display features enable you to further manipulate and configure your display settings to optimize the use of your displays. @@@(Note 2) This item will show up when you connect two monitors. @These changes will not affect any video playback. @@@@(Note 2) This item will show up when you connect two monitors. - 21 Software Installation English Dual-Monitor Setup : You can set the display to output from two monitors on the Change Display Configuration page.

Select your preferred nView display modes here. · Only use one display (Single) · The same on both display (Clone) · As one large horizontal desktop (Horizontal span) · As one large vertical desktop (Vertical span) · Configured independently from each other (Dualview) (1) The same on both display (Clone) Clone mode indicates that both displays in the display pair show images of the same desktop. Clone Mode (2) As one large horizontal desktop (Horizontal span) Horizontal Span mode indicates that both displays in the display pair function as one wide virtual desktop. @@@@. Change the signal format to use for your standard television or HDTiew functionality for mobile and desktop users. GV-NX85T Series Graphics Accelerator - 30 - 3.2. @@To ensure you install the latest driver, insert the Installation CD that shipped with your graphics card. To install the graphics card driver for Windows® 2000, please insert the Installation CD. Then the AUTORUN window will show up. @@@Click the Start button on the control bar.

2. Select Run. 3. @@Click "OK". 5.

@@6. Click "Next". 7. Click "Yes" to the license agreement. 8.

Follow the Wizard's on-screen instructions to complete the installation. Please make sure the Windows® 2000 have installed Windows® 2000 Service Pack (or later) before installing the graphics accelerator driver. English - 31 - Software Installation English 4. Troubleshooting Tips The following troubleshooting tips may help if you experience problems. Contact your dealer or GIGABYTE for more advanced troubleshooting information. Check that the card is seated properly in the PCI Express x16 slot. Ensure that the display cable is securely fastened to the card's display connector. Make sure that the monitor and computer are plugged in and receiving power. If necessary, disable any built-in graphics capabilities on your motherboard. For more information, consult your computer's manual or manufacturer.

(NOTE: Some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.) Make sure you selected the appropriate display device and graphics card when you installed the graphics driver. Restart your computer. Press the F8 key on your keyboard after system starts up.

@@@@@If necessary, adjust your monitor's setting by monitor's adjust panel to make the screen looks focused, crisp, and sharp. (Please refer to the monitor's manual.) GV-NX85T Series Graphics Accelerator - 32 - 5. Appendix 5.1. How to Reflash the BIOS in MS-DOS Mode 1.

Extract the downloaded Zip file to your hard disk(s) or floppy disk. This procedure assumes drive A. 2. Restart the computer in MS-DOS mode. (For Windows 2000/XP, you need a startup disk to restart the computer in MS-DOS mode.

) 3. Change the command prompt to A:\>. 4. To back up the current BIOS, at the A:\> prompt, type[BIOS flash utility name] -s [BIOS file name] (example: gvfl8 -s x85t2h.f1) and press Enter.

5. To flash BIOS, at the A:\> prompt, type [BIOS flash utility name] -p [BIOS file name] (example: gvfl8 -p x85t2h.f2) and press Enter. 6. Wait until it's done, then restart your computer. English - 33 - Appendix English 5.2. Resolutions and Color Depth Table (In Windows® XP) GeForce 8500 GT Single Display Standard Modes Display Refresh Screen Rate Resolution (Hz) 320 x 200 60~75 320 x 240 60~75 400 x 300 60~75 480 x 360 60~75 512 x 384 60~75 640 x 400 (16:10) 60~75 640 x 480 60~240 720 x 480 60 720 x 576 50~60 800 x 600 60~240 848 x 480 60~240 960 x 600 (16:10) 60~240 1024 x 768 60~200 240 1088 x 612 (16:9) 60~200 240 1152 x 864 60~170 200 1280 x 720 (16:9) 60~150 170 1280 x 768 60~150 170 1280 x 800 60~150 170 1280 x 960 60~150 170 1280 x 1024 60~150 170 1360 x 768 60~150 170 1600 x 900 (16:9) 60~120 140~150 1600 x 1024 60~100 120 Color Depth (bpp) 8bpp(256 color) Standard mode 16bpp(65K color) High mode 32bpp(16.7M) True mode X X X X X X X X X X To be continued..

. - 34 - GV-NX85T Series Graphics Accelerator English Display Screen Resolution 1600 x 1200 Refresh Rate Color Depth (bpp) 8bpp(256 color) Standard mode 16bpp (65K color) High mode 32bpp (16.7M) True mode X X X (Hz) 60~100 120 1920 x 1080 (16:9) 60~85 100 1920 x 1200 (16:10) 60~85 100 1920 x 1440 60~85 2048 x 1536 60~85 2560 x 1600 60 (Dual-Link) \* This table is for reference only. The actual resolutions supported depend on the monitor you use. - 35 - Appendix English GV-NX85T Series Graphics Accelerator - 36 - .



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