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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-7N400 PRO2. You'll find the answers to all your questions on the GIGABYTE GA-7N400 PRO2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual GIGABYTE GA-7N400 PRO2**  
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SATA RAID Function  
(Only For Chipset Sil 3112 /Sil 3512 Used)

USER'S MANUAL

12ME-S13112-003



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**Manual abstract:**

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RAID Striping greatly improves hard disk I/O performance by concurrently Striping data across multiple drives. Disk Striping (RAID 0) Striping is a performance-oriented, non-redundant data mapping technique. While Striping is discussed as a RAID Set type, it actually does not provide fault tolerance. With modern SATA and ATA bus mastering technology, multiple I/O operations can be done in parallel, enhancing performance. Striping Strip 0 Strip 1 Strip 2 arrays use multiple disks to form a larger virtual disk. Strip 3 Strip 4 Strip 5 This figure shows a stripe set using three disks with stripe one written to disk one, stripe two to disk two, and so forth. Strip 6 Strip 9 Strip 7 Strip 10 Strip 8 Strip 11 Disk Mirroring (RAID 1) Disk mirroring creates an identical twin for a selected disk by having the data simultaneously written to two disks. This redundancy provides instantaneous protection from a single disk failure. If a read failure occurs on one drive, the system reads the data from the other drive.

Block 0 Block 1 Block 0 Block 1 Block 2 Block 3 Block 2 Block 3 2 SATA RAID Function 2. Most floppy disk drives are configured as [A:]. Click Finish. To install SATA RAID, use Windows InstallShield by performing the following: 1. After computer restarts, insert cd in disk drive. 2. Double-click on Install SATA RAID.exe. 3. Follow on-screen instructions to complete installation.

Note: Do NOT install in the Start Up folder. Choose the Default folder (normally Accessories or Administrative Tools or something similar). SATA RAID Function 3 Windows NT Operating System Insert the floppy in the floppy disk drive and click Have Disk. The next window is asking for the location of the driver. Most floppy disk drives are configured as [A:]. To verify, click on Browse. The next window verifies that the appropriate file is located on [A:]. Select the file Oemsetup.inf and click Open. [A:] should appear in the window.

Click OK The next window allows you to select which driver to install. Only one driver should appear in this window. Select SiI 3112 Raid Controller and click on OK. It is always good to Restart the computer after an installation. Click Yes. To install the SATA RAID GUI, use Windows InstallShield by performing the following: 1. After computer restarts, insert cd in disk drive. 2. Double-click on Install SATA RAID.exe.

3. Follow on-screen instructions to complete installation. Note: Do NOT install in the Start Up folder. Choose the Default folder (normally Accessories or Administrative Tools or something similar). Windows 98/Me Operating System Follow the instructions in each window, using the driver installation files (siI3112r.sys) on the floppy disk as necessary. To install the SATA RAID GUI, use Windows InstallShield by performing the following: 1. After computer restarts, insert cd in disk drive. 2. Double-click on Install SATA RAID.

exe. 3. Follow on-screen instructions to complete installation. Note: Do NOT install in the Start Up folder. Choose the Default folder (normally Accessories or Administrative Tools or something similar). 4 SATA RAID Function 3 . C R E A T I N G / D E L E T I N G R A I D S E T S Creating and deleting RAID sets is a function found in the BIOS. During bootup, the following message will appear, pausing for a few moments to allow the user to choose what to do: Press <CTRL-S> or F4 to enter RAID utility An easy-to-use screen will appear with the following choices in the top left: Create RAID Set Delete RAID Set Rebuild RAID Set Resolve Conflicts Below this will be listed the drives currently installed on the system. 1. 2.

3. For Striped Sets, you can change the chunk size. What is Disk Copy? 4. 2. Once completed, continue booting Windows. SECTION 2: Report of physical connection of disks/RAID Sets. Make sure the box next to each disk is checked, then click OK. 1. At this point, there should be three disks with Unallocated partitions. Right-click on the partition of the first disk and click on "Create Partition." The "Create Partition Wizard" should appear. 1. The first window is an introductory window to the Wizard. Click Next. 2. The second window designates the partition as a primary partition. Click Next. 3. The third window designates the partition size. Click Next.

4. 17. The new disks should now appear in My Computer window. 18. 2. 3. 4. Click on the START button Select Run... In order to create partitions, the fixed drive needs to be changed. Select 5 and press Enter. Enter the disk number to partition and press Enter. 16 SATA RAID Function With the Current fixed drive set at the disk needing to be partitioned, Select 1 and press Enter. The following window will appear: Select 2 to create an extended partition and press Enter.

SATA RAID Function 17 The following window will appear: Once the percentage counter reaches 100%, the following window will appear: This window explains how much space will be available in the partition. Press Enter. 18 SATA RAID Function This window shows that the partition has been created. Press Esc. FDISK is now creating a logical drive.

Once the percentage counter reaches 100% the following window appears: SATA RAID Function 19 Once again, this window reports size. Press Enter and the following window appears: This window now shows the drive and its drive letter and size. Press Esc. 20 SATA RAID Function If another drive (RAID set) needs to be partitioned, repeat the process, starting by changing the fixed disk drive (Press 5). If done, press Esc. The following window will appear: This window is a reminder to RESTART the computer. SATA RAID Function 21 After restarting the computer, and booting Windows 9x, double-click on the My Computer icon. Right-click on each new drive and select Format. Only a FULL format will be accepted at this point. Select Full Format, enter the Label Name for the drive or RAID set (if desired) and click OK.



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Once the drive has been formatted, repeat for each new drive. @@@@If the icon does not appear in the bottom right hand corner of the desktop, find where the application was saved and launch from there. Upon launching the GUI, the the first window which identifies the computer running SATAraid should appear similar to the following: Save configuration to a file button Copy configuration to clip board Configuration Tree Send configuration by e-mail Help on SATAraid About SATAraid \* The Events tab reports logged events. \* For PCI-3112 or 3512 SATA RAID Function 23 Selecting each different component in the configuration tree provides specific information for that component, such as the chip. \* Selecting a specific channel, either Primary or Secondary, the following information is reported: \*\* For PCI-3112 or 3512 24 SATA RAID Function Selecting a specific drive reports all pertinent information to that drive, including Configuration and Disk Identification information. \*\* For PCI-3112 or 3512 SATA RAID Function 25 Selecting Sets lists the Sets in the configuration tree and provides information on RIO Version: \* By selecting a specific RAID set, such as Set 0, the type of RAID set, the number of members and capacity is reported. \*\* For PCI-3112 or 3512 26 SATA RAID Function \* The Device Location refers to how each physical disk was reported in the BIOS RAID utility. The Members tab of this window reports the device identification (corresponding with the information in the BIOS) and the State of each device. Besides reporting information, the Members tab of a Mirrored set allows the user to remove a specific drive from that set, as well as add a designated Spare drive to a Mirrored set that has experienced a disk failure. A drive can NOT be removed from a Striped set as this would destroy all data. Note that when a Mirrored Set is first created, the State of the "destination" drive may report as Rebuild for as much as 30-90 minutes depending on the size of the disk. \* For PCI-3112 or 3512 SATA RAID Function 27 SMART and Configuration information, as well as Data Identification is again provided for each Set. \* \* \* For PCI-3112 or 3512 28 SATA RAID Function SATAraid Configuration Menu By clicking on the toolbox icon in the top left of the SATAraid GUI window, or right-clicking on the conductor icon in the bottom right of the computer screen (with other start-up icons), the user may configure SATAraid including customizing the settings for SMTP, E-mail, Notification, Event Level, Log File, Audio, and Popup. SMTP The SMTP serve.



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