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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
User guide GIGABYTE GA-7N400 PRO2
Operating instructions GIGABYTE GA-7N400 PRO2
Instructions for use GIGABYTE GA-7N400 PRO2
Instruction manual GIGABYTE GA-7N400 PRO2



When you installing AGP card, please make sure the following notice is fully understood and practiced. If your AGP card has "AGP 4X/8X (1.5V) notch"(show below), please make sure your AGP card is AGP 4X/8X.



Caution: AGP 2X card is not supported by nVIDIA® nForce™ 2 Ultra 400. You might experience system unable to boot up normally. Please insert an AGP Pro 4X/8X card.



Example 1: Diamond Vipper V770 golden finger is compatible with 2X/4X mode AGP slot. It can be switched between AGP 2X(3.3V) or 4X(1.5V) mode by adjusting the jumper. The factory default for this card is 2X(3.3V). The GA-7N400 Pro2 / GA-7N400 / GA-7N400-L (or any AGP 4X/8X only) motherboards might not function properly, if you install this card without switching the jumper to 4X(1.5V) mode in it.

Example 2: Some ATI Rage 128 Pro graphics cards made by "Power Color", the graphics card manufacturer & some SIS 305 cards, their golden finger is compatible with 2X(3.3V) / 4X(1.5V) mode AGP slot, but they support 2X(3.3V) only. The GA-7N400 Pro2 / GA-7N400 / GA-7N400-L (or any AGP 4X/8X only) motherboards might not function properly, if you install this card in it.

Note : Although Gigabyte's AG32S(G) graphics card is based on ATI Rage 128 Pro chip, the design of AG32S(G) is compliance with AGP 4X(1.5V) specification. Therefore, AG32S(G) will work fine with nVIDIA® nForce2 Ultra 400 based motherboards.



Before you install PCI cards, please remove the Dual BIOS label from PCI slots if there is one.



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Manual abstract:

Please insert an AGP Pro 4X/8X card. @@@@The factory default for this card is 2X(3.3V). The GA-7N400 Pro2 / GA-7N400 / GA-7N400-L (or any AGP 4X/8X only) motherboards might not function properly, if you install this card without switching the jumper to 4X(1.5V) mode in it. Example 2: Some ATi Rage 128 Pro graphics cards made by "Power Color", the graphics card manufacturer & some SiS 305 cards, their golden finger is compatible with 2X(3.3V) / 4X(1.5V) mode AGP slot, but they support 2X(3.3V) only. The GA-7N400 Pro2 / GA-7N400 / GA-7N400-L (or any AGP 4X/8X only) motherboards might not function properly, If you install this card in it.

Note : Although Gigabyte's AG32S(G) graphics card is based on ATi Rage 128 Pro chip, the design of AG32S(G) is compliance with AGP 4X(1.5V) specification. Therefore, AG32S(G) will work fine with nVIDIA® nForce2 Ultra 400 based motherboards. Before you install PCI cards, please remove the Dual BIOS label from PCI slots if there is one. 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.

Third-party brands and names are the property of their respective owners. Please do not remove any labels on motherboard, this may void the warranty of this motherboard. Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet. Declaration of Conformity We, Manufacturer/Importer (full address) G.B.

T. Technology Trädning GmbH Ausschlager Weg 41, 1F, 20537 Hamburg, Germany declare that the product (description of the apparatus, system, installation to which it refers) Mother Board GA-7N400 Pro2 / GA-7N400 / GA-7N400-L is in conformity with (reference to the specification under which conformity is declared) in accordance with 89/336 EEC-EMC Directive EN 55011 Limits and methods of measurement of radio disturbance characteristics of industrial,scientific and medical (ISM high frequency equipment EN 55013 Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment EN 55014 Limits and methods of measurement of radio disturbance characteristics of household electrical appliances, portable tools and similar electrical apparatus EN 55015 Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries Immunity from radio interference of broadcast receivers and associated equipment EN 55022 Limits and methods of measurement of radio disturbance characteristics of information technology equipment DIN VDE 0855 part 10 part 12 Cabled distribution systems; Equipment for receiving and/or distribution from sound and television signals EN50091-2 ENV 55104 EN 50082-1 EN 61000-3-3* EN 60555-3 EN 61000-3-2* EN 60555-2

Disturbances in supply systems cause by household appliances and similar electrical equipment "Harmonics" Disturbances in supply systems cause by household appliances and similar electrical equipment "Voltage fluctuations" EN 50081-1 Generic emission standard Part 1: Residual commercial and light industry Generic immunity standard Part 1: Residual commercial and light industry EN 55081-2 Generic emission standard Part 2: Industrial environment EN 55020 EN 55082-2 Generic emission standard Part 2: Industrial environment Immunity requirements for household appliances tools and similar apparatus EMC requirements for uninterruptible power systems (UPS) CE marking (EC conformity marking) The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC EN 60065 Safety requirements for mains operated electronic and related apparatus for household and similar general use EN 60950 Safety for information technology equipment including electrical bussiness equipment EN 60335 Safety of household and similar electrical appliances EN 50091-1 General and Safety requirements for uninterruptible power systems (UPS) Manufacturer/Importer Signature: (Stamp) Timmy Huang Timmy Huang Date : June 30, 2003 Name: DECLARATION OF CONFORMITY Per FCC Part 2 Section 2.1077(a) Responsible Party Name: G.B.T. INC. (U.S.A.) Address: 17358 Railroad Street City of Industry, CA 91748 Phone/Fax No: (818) 854-9338/ (818) 854-9339 hereby declares that the product Product Name: Motherboard Model Number: GA-7N400 Pro2 /GA-7N400 /GA-7N400-L

Conforms to the following specifications: FCC Part 15, Subpart B, Section 15.

107(a) and Section 15.109(a), Class B Digital Device Supplementary Information: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any inference received, including that may cause undesired operation. Representative Person's Name: ERIC LU Signature: E r i c Lu Date: June 30, 2003 GA-7N400 Pro2 / GA-7N400 / GA-7N400-L AMD Socket A Processor Motherboard USER'S MANUAL AMD AthlonTM/ AthlonTM XP / DuronTM Socket A Processor Motherboard Rev. 2002

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" - 14 - N400 Pro2 / N400 Series Motherboard 14 2005/5/5, 11:35 Step 2: Install the Central Processing Unit (CPU) Before installing the processor, adhere to the following warning: 1. Please make sure the CPU type is supported by the motherboard. 2. If you do not match the CPU socket Pin 1 and CPU cut edge well, it will cause improper installation. Please change the insert orientation. English Step 2-1: CPU Installation CPU Top View CPU Bottom View Socket Actuation Lever Pin1 indicator 1 Pull up the CPU socket lever and up to 90-degree angle. 2.

Locate Pin 1 in the socket and look for a (golden) cut edge on the CPU upper corner. Then insert the CPU into the socket. - 15 Hardware Installation Process 15 2005/5/5, 11:35 English Step 2-2: CPU Cooling Fan Installation Before installing the CPU cooling fan, adhere to the following warning: 1. Please use AMD approved cooling fan. 2.

We recommend you to apply the thermal tape to provide better heat conduction between your CPU and cooling fan. 3. Make sure the CPU fan power cable is plugged in to the CPU fan connector, this completes the installation. Please refer to CPU cooling fan user's manual for more detail installation procedure. 1. Press down the CPU socket lever and finish CPU installation. 2. Use qualified fan approved by AMD. 3. Fasten the cooling fan supporting base onto the CPU socket on the motherboard. 4. Make sure the CPU fan is plugged to the CPU fan connector, than install complete. N400 Pro2 / N400 Series Motherboard - 16 - 16 2005/5/5, 11:35 Step 3: Install Memory Modules Before installing the memory modules, adhere to the following warning: 1. When DIMM LED is ON, do not install / remove DIMM from socket. 2.

Please note that the DIMM module can only fit in one direction due to the one notch. Wrong orientation will cause improper installation. Please change the insert orientation. The motherboard has 4 dual inline memory module (DIMM) sockets. The BIOS will automatically detects memory type and size. To install the memory module, just push it vertically into the DIMM socket. The DIMM module can only fit in one direction due to the notch. Memory size can vary between sockets. English Notch DDR Support Unbuffered DDR DIMM Sizes type: 64 Mbit (2Mx8x4 banks) 64 Mbit (1Mx16x4 banks) 128 Mbit(2Mx16x4 banks) 256 Mbit(8Mx8x4 banks) 512 Mbit(16Mx8x4 banks) 512 Mbit(8Mx16x4 banks) Total System Memory (Max3GB) 128 Mbit(4Mx8x4 banks) 256 Mbit(4Mx16x4 banks) - 17 - Hardware Installation Process 17 2005/5/5, 11:35 English 1. The DIMM socket has a notch, so the DIMM memory module can only fit in one direction.

2. Insert the DIMM memory module vertically into the DIMM socket. Then push it down. 3. Close the plastic clip at both edges of the DIMM sockets to lock the DIMM module.

Reverse the installation steps when you wish to remove the DIMM module. DDR Introduction Established on the existing SDRAM industry infrastructure, DDR (Double Data Rate) memory is a high performance and cost-effective solution that allows easy adoption for memory vendors, OEMs and system integrators. DDR memory is a sensible evolutionary solution for the PC industry that builds on the existing SDRAM infrastructure, yet makes awesome advances in solving the system performance bottleneck by doubling the memory bandwidth. DDR SDRAM will offer a superior solution and migration path from existing SDRAM designs due to its availability, pricing and overall market support. PC2100 DDR memory (DDR266) doubles the data rate through reading and writing at both the rising and falling edge of the clock, achieving data bandwidth 2X greater than PC133 when running with the same DRAM clock frequency.

With peak bandwidth of 2.664GB per second, DDR memory enables system OEMs to build high performance and low latency DRAM subsystems that are suitable for servers, workstations, high-end PC's and value desktop SMA systems. N400 Pro2 / N400 Series Motherboard - 18 - 18 2005/5/5, 11:35 Dual Channel DDR: GA-7N400 Pro2 / GA-7N400 / GA-7N400-L support Dual Channel Technology. When Dual Channel Technology is activated, the bandwidth of memory bus will be double the original one, with the fastest speed at 6.4GB/s(DDR400) . GA-7N400 Pro2 / GA-7N400 / GA-7N400-L include 4 DIMM slots, and each Channel has 2 DIMMs as following: Channel A : DIMM 1, 2 Channel B : DIMM 3, 4 Below are the explanations: If you want to operate the Dual Channel Technology, please note the following explanations due to the limitation of nforce chipset specifications. 1. Only one DDR memory module is installed: The Dual Channel Technology can't operate when only one DDR memory module is installed. 2. Two DDR memory modules are installed: The Dual Channel Technology will operate when two memory modules are inserted individually into Channel A and B.

If you install two memory modules in the same channel, the Dual Channel Technology will not operate. 3. Three or Four DDR memory modules are installed: Please follow figure 1 to achieve the Dual Technology. The following tables include all memory-installed combination types: (Please note that those types not in the tables will not boot up.) Figure 1: Dual Channel Technology (DS: Double Side, SS: Single Side) DIMM 1 2 memory modules DS/SS X DS/SS X 3 memory modules DS/SS DS/SS X DS/SS 4 memory modules DS/SS DIMM 2 X DS/SS X DS/SS DS/SS DS/SS DS/SS X DS/SS DIMM 3 DS/SS DS/SS X X DS/SS X SS SS SS DIMM 4 X X DS DS X DS SS SS SS English Figure 2: Non Dual Channel Technology (DS: Double Side, SS: Single Side) DIMM 1 1 memory module DS/SS X X X 2 memory modules DS/SS X DIMM 2 X DS/SS X X DS/SS X DIMM 3 X X DS/SS X X SS DIMM 4 X X X DS X SS If memories are inserted on dimm3 and dimm4 at the same time, please note that the memories must be exactly identical in device, type, size and single side. This is essential to let system boot up correctly - 19 Hardware Installation Process 19 2005/5/5, 11:35 English Step 4: Install expansion cards 1. Read the related expansion card's instruction document before install the expansion card into the computer. 2. Remove your computer's chassis cover, screws and slot bracket from the computer. 3.

Press the expansion card firmly into expansion slot in motherboard. 4. Be sure the metal contacts on the card are indeed seated in the slot. 5. Replace the screw to secure the slot bracket of the expansion card.

6. Replace your computer's chassis cover. 7. Power on the computer, if necessary, setup BIOS utility of expansion card from BIOS. 8. Install related driver from the operating system.



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Please carefully pull out the small white-drawable bar at the end of the AGP slot when you try to install / uninstall the AGP card. Please align the AGP card to the onboard AGP slot and press firmly down on the slot. Make sure your AGP card is locked by the small white-drawable bar. When an AGP 2X (3.3V) card is installed the 2X_DET will light up, indicating a non-supported graphics card is inserted. Informing users that system might not boot up normally due to AGP 2X (3.3V) is not supported by the chipset. N400 Pro2 / N400 Series Motherboard - 20 - 2005/5/5, 11:35 Step 5: Connect ribbon cables, cabinet wires and power supply Step 5-1: I/O Back Panel Introduction English GA-7N400 Pro2 / GA-7N400-L GA-7N400 PS/2 Keyboard and PS/2 Mouse Connector PS/2 Mouse Connector (6 pin Female) PS/2 Keyboard Connector (6 pin Female) This connector supports standard PS/2 keyboard and PS/2 mouse. / USB/LAN Connector Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker.

...etc. Have a standard USB interface. Also make sure your OS supports USB 2 USB 3 controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade. For more information please contact your OS or device (s) vendors. LAN (13) 13 USB 0 USB 1 1 For GA-7N400 Pro2 only. 3 For GA-7N400-L only. - 21 Hardware Installation Process 2005/5/5, 11:36 English Parallel Port, Serial Ports COM1 / COM2 According to your motherboard, please see the following descriptions for the devices.

Device like printer can be connected to Parallel port; mouse and modem etc. can be connected to Serial ports. COM1 COM2 Serial Port (9 pin Male) Audio Connectors Line In (Rear Speaker) Line Out (Front Speaker) MIC In (Center and Subwoofer) After install onboard audio driver, you may connect speaker to Line Out jack, microphone to MIC In jack. Device like CD-ROM, walkman etc. can be connected to Line-In jack.

Please note: You are able to use 2-/4-/6-channel audio feature by S/W selection. If you want to enable 6-channel function, you have 2 choose for hardware connection. Method1: Connect "Front Speaker" to "Line Out" Connect "Rear Speaker" to "Line In" Connect "Center and Subwoofer" to "MIC Out".

Method2: You can refer to page 32, and contact your nearest dealer for optional SUR_CEN cable. If you want the detail information for 2-/4-/6-channel audio setup installation, please refer to page 79.

N400 Pro2 / N400 Series Motherboard - 22 - 2005/5/5, 11:36 Step 5-2: Connectors Introduction 1 3 14 5(1) English 7 2 8 15 16 17 19 20 18 26 24 23 25 22(1) 13 11 6(1) 4 27 10(1) 12 9(1) 21 1) ATX_12V 2) ATX 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) CPU_FAN SYS_FAN PWR_FAN(1) NB_FAN(1) FDD IDE1 / IDE2 IDE3 (1) / IDE4 (1) SATA0 (1) / SATA1 (1) F_PANEL BAT PWR_LED RAM_LED 15) 2X_DET 16) F_AUDIO 17) 18) 19) 20) 21) 22) 23) 24) SUR_CEN SPDIF_IO CD_IN AUX_IN F_USB F1_1394 (1) / F2_1394 (1) IR GAME 25) INFO_LINK 26) CI 27) CLR_CMOS 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only. - 23 Hardware Installation Process 2005/5/5, 11:36 English 1) ATX_12V (+12V Power Connector) This connector (ATX_12V) supplies the CPU operation voltage (Vcore). If this "ATX_12V connector" is not connected, system cannot boot. 13 Pin No. 1 2 3 4 Definition GND GND +12V +12V 2 4 2) ATX (ATX Power) AC power cord should only be connected to your power supply unit after ATX power cable and other related devices are firmly connected to the mainboard. Pin No. 1 2 3 Definition 3.3V 3.

3V GND VCC GND VCC GND Power Good 5V SB (stand by +5V) 11 1 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 +12V 3.3V -12V GND PS_ON (soft on/off) GND GND GND -5V VCC VCC 20 10 N400 Pro2 / N400 Series Motherboard - 24 - 2005/5/5, 11:37 3) CPU_FAN (CPU Fan Connector) Please note, a proper installation of the CPU cooler is essential to prevent the CPU from running under abnormal condition or damaged by overheating. The CPU fan connector supports Max. current up to 600 mA. English Pin No. Definition GND +12V Sense 1 1 2 3 4) SYS_FAN (System Fan Connector) This connector allows you to link with the cooling fan on the system case to lower the system temperature. Pin No. 1 2 3 Definition GND +12V Sense 1 - 25 - Hardware Installation Process 2005/5/5, 11:38 English 5) PWR_FAN (Power Fan Connector)(1) This connector allows you to link with the cooling fan on the system case to lower the system temperature. 1 Pin No. 1 2 3 Definition GND +12V Sense 6) NB_FAN (Chip Fan Connector)(1) If you installed wrong direction, the chip fan will not work.

Sometimes will damage the chip fan. (Usually black cable is GND) 1 Pin No. 1 2 Definition VCC GND 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only.

N400 Pro2 / N400 Series Motherboard - 26 - 2005/5/5, 11:40 7) FDD (Floppy Connector) Please connect the floppy drive ribbon cables to FDD. It supports 360K, 1.2M, 720K, 1.44M and 2.88M bytes floppy disk types.

The red stripe of the ribbon cable must be the same side with the Pin1. English 34 33 2 1 8) IDE1 / IDE2 (IDE1 / IDE2 Connector) Important Notice: Please connect first hard disk to IDE1 and connect CD-ROM to IDE2. The red stripe of the ribbon cable must be the same side with the Pin1. 40 39 2 IDE2 - 27 - 1 IDE1 Hardware Installation Process 2005/5/5, 11:41 English 9) IDE3 / IDE4 (RAID/ATA133, Green Connector)(1) Important Notice: The red stripe of the ribbon cable must be the same side with the Pin1. If you wish to use IDE3 and IDE4, please use it in unity with BIOS (either RAID or ATA133). Then, install the correct driver to have proper operation. For details, please refer to the GigaRAID manual. 39 1 IDE4 IDE3 40 2 10) SATA0 / SATA1 (Serial ATA Connector)(1) You can connect the Serial ATA device to this connector, it provides you high speed transfer rates (150MB/sec). If you wish to use RAID function, please use it in unity with BIOS and install the correct driver to have proper operation. For details, please refer to the SATA RAID manual.

Pin No. 1 Definition GND TXP TXN GND RXN RXP GND 1 7 1 7 2 3 4 5 6 7 SATA0 SATA1 Silicon Image Sil3512 chip supports Serial ATA connectors hot plug function.



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1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only. N400 Pro2 / N400 Series Motherboard - 28 - 2005/5/5, 11:42 11) F_PANEL (2 x 10 pins Connector) Please connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the F_PANEL connector according to the pin assignment above. English Message LED/ Power/ Sleep LED Speaker Connector Soft Power Connector MSG+ MSGPW+ PW- SPEAK+ 2 1 1 1 1 1 HD+ IDE Hard Disk Active LED HD (IDE Hard Disk Active LED) (Blue) SPK (Speaker Connector) (Amber) RES (Reset Switch) (Green) PW (Soft Power Connector) (Red) MSG(Message LED/ Power/ Sleep LED) (Yellow) NC (Purple) Pin 1: LED anode(+) Pin 2: LED cathode(-) Pin 1: VCC(+) Pin 2- Pin 3: NC Pin 4: Data(-) Open: Normal Operation Close: Reset Hardware System Open: Normal Operation Close: Power On/Off Pin 1: LED anode(+) Pin 2: LED cathode(-) NC - 29 - RES- Reset Switch RES+ NC HD- SPEAK- 20 19 Introduction 29 2005/5/5, 11:42 English 12) BATTERY + CAUTION Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

If you want to erase CMOS... 1. Turn OFF the computer and unplug the power cord.

2. Remove the battery, wait for 30 second. 3. Re-install the battery. 4.

Plug the power cord and turn ON the computer. 13) PWR_LED PWR_LED is connect with the system power indicator to indicate whether the system is on/off. It will blink when the system enters suspend mode. If you use dual color LED, power LED will turn to another color. 1 Pin No. 1 2 3 Definition MPD+ MPDMPD- N400 Pro2 / N400 Series Motherboard - 30 - 2005/5/5, 11:44 14) RAM_LED Do not remove memory modules while RAM_LED is on. It might cause short or other unexpected damages due to the stand by voltage. Remove memory modules only when AC power cord is disconnected. English 15) 2X_DET When an AGP 2X (3.3V) card is installed the 4X_AGP will light up, indicating a non-supported graphics card is inserted.

Informing users that system might not boot up normally due to AGP 2X (3.3V) is not supported by the chipset. - 31 - 2005/5/5, 11:44 _ English 16) F_AUDIO (Front Audio Connector) If you want to use Front Audio connector, you must remove 5-6, 9-10 Jumper. In order to utilize the front audio header, your chassis must have front audio connector. Also please make sure the pin assignment on the cable is the same as the pin assignment on the MB header. To find out if the chassis you are buying support front audio connector, please contact your dealer. Please note, you can have the alternative of using front audio connector or of using rear audio connector to play sound. Pin No. 1 2 3 Definition MIC GND REF Power Front Audio (R) Rear Audio (R) Reserved No Pin Front Audio (L) Rear Audio (L) 10 2 9 1 4 5 6 7 8 9 10 17) SUR_CEN (Surround Center Connector) Please contact your nearest dealer for optional SUR_CEN cable. 26 15 Pin No.

1 2 3 4 5 6 Definition SUR OUTL SUR OUTR GND No Pin CENTER_OUT BASS_OUT N400 Pro2 / N400 Series Motherboard - 32 - 2005/5/5, 11:45 18) SPDIF_IO (SPDIF In / Out Connector) The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital input function. Be careful with the polarity of the SPDIF_IO connector. Check the pin assignment carefully while you connect the SPDIF_IO cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional SPDIF_IO cable, please contact your local dealer.

English 26 15 Pin No. 1 2 3 4 5 6 Definition VCC No Pin SPDIF_O SPDIFI GND GND 19) CD_IN (CD In Connector) Connect CD-ROM or DVD-ROM audio out to the connector. 1 Pin No. 1 2 3 4 Definition CD-L GND GND CD-R - 33 - Hardware Installation Process 2005/5/5, 11:46 English 20) AUX_IN (AUX In Connector) Connect other device (such as PCI TV Tunner audio out) to the connector. Pin No.

Definition AUX-L GND GND AUX-R 1 1 2 3 4 21) F_USB (Front USB Connector, Yellow) Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional front USB cable, please contact your local dealer. 2 10 Pin No. 1 2 3 4 5 6 7 8 9 10 Definition Power Power USB DxUSB DyUSB Dx+ USB Dy+ GND GND No Pin NC 1 9 N400 Pro2 / N400 Series Motherboard - 34 - 2005/5/5, 11:47 22) F1_1394 / F2_1394 (Front IEEE1394 Connector) (1) English Serial interface standard set by Institute of Electrical and Electronics Engineers, which has features like high speed, highbandwidth and hot plug. Be careful with the polarity of the IEEE1394 connector. Check the pin assignment carefully while you connect the IEEE1394 cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional IEEE1394 cable, please contact your local dealer. 2 16 F2_1394 1 15 F1_1394 2 10 1 Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Definition Power Power TPA0+ TPA0GND GND TPB0+ TPB0Power Power TPA1+ TPA1GND No Pin TPB1+ TPB1- 9 Pin No.

1 2 3 4 5 6 7 8 9 10 Definition TPA2+ TPA2GND GND TPB2+ TPB2Power Power No Pin GND 23) IR Make sure the pin 1 on the IR device is along with pin one the connector. To enable the IR function on the board, you are required to purchase an option IR module. Be careful with the polarity of the IR connector.

For optional IR cable, please contact your local dealer. IR 1 5 Pin No. 1 2 3 4 5 Definition VCC(+5V) No Pin IR Data Input GND IR Data Output - 35 - Hardware Installation Process 2005/5/5, 11:50 English 24) GAME (Game Connector) This connector supports joystick, MIDI keyboard and other relate audio devices. Check the pin assignment while you connect the game cables. Please contact your nearest dealer for optional game cables. Pin No. 1 2 3 4 5 6 Definition VCC GRX1_R GND GPSA2 VCC GPX2_R GPY2_R MSI_R GPSA1 GND GPY1_R VCC GPSB1 MSO_R GPSB2 No Pin 2 1 16 15 7 8 9 10 11 12 13 14 15 16 25) INFO_LINK This connector allows you to connect some external devices to provide you extra function.



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Check the pin assignment while you connect the external device cable. Please contact your nearest dealer for optional external device cable. Pin No. 1 Definition SMBCLK VCC SMBDATA GPIO GND GND No Pin NC +12V +12V 2 1 10 9 2 3 4 5 6 7 8 9 10 N400 Pro2 / N400 Series Motherboard - 36 - ¥¼©R!W-1 36 2005/5/5, ¤W¤È 11:52 26) CI (CASE OPEN) This 2-pin connector allows your system to enable or disable the "Case Open" item in BIOS, if the system case begin remove. English 1 Pin No.

1 2 Definition Signal GND 27) CLR_CMOS You may clear the CMOS data to its default values by this jumper. Default doesn't include the "Shunter" to prevent from improper use this jumper. To clear CMOS, temporarily short 1-2 pin. 1 Open: Normal 1 1-2 close: Clear CMOS - 37 - Hardware Installation Process ¥¼©R!W-1 37 2005/5/5, ¤W¤È 11:52 English N400 Pro2 / N400 Series Motherboard - 38 - ¥¼©R!W-1 38 2005/5/5, ¤W¤È 11:52 Chapter 3 BIOS Setup BIOS Setup is an overview of the BIOS Setup Program. The program that allows users to modify the basic system configuration.

This type of information is stored in battery-backed CMOS RAM so that it retains the Setup information when the power is turned off. English ENTERING SETUP Powering ON the computer and pressing immediately will allow you to enter Setup. If you require more advanced BIOS settings, please go to "Advanced BIOS" setting menu. To enter Advanced BIOS setting menu, press "Ctrl+F1" key on the BIOS screen. CONTROL KEYS <> <> << >> > Move to previous item Move to next item Move to the item in the left hand Move to the item in the right hand Select item Main Menu - Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu - Exit current page and return to Main Menu <+/PgUp> Increase the numeric value or make changes <-/PgDn> <F1> <F2> <F3> <F4> <F5> <F6> <F7> <F8> <F9> <F10> Decrease the numeric value or make changes General help, only for Status Page Setup Menu and Option Page Setup Menu Item Help Reserved Reserved Restore the previous CMOS value from CMOS, only for Option Page Setup Menu Load the file-safe default CMOS value from BIOS default table Load the Optimized Defaults Dual BIOS(1)/Q-Flash function System Information Save all the CMOS changes, only for Main Menu Enter <Esc> 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only. - 39 - BIOS Setup English GETTING HELP Main Menu The on-line description of the highlighted setup function is displayed at the bottom of the screen. Status Page Setup Menu / Option Page Setup Menu Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>.

The Main Menu (For example: BIOS Ver. : 7N400P2.F6a) Once you enter Award BIOS CMOS Setup Utility, the Main Menu (Figure 1) will appear on the screen. The Main Menu allows you to select from eight setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu. CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status ESC: Quit F8: Dual BIOS / Q-Flash (1) Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Time, Date, Hard Disk Type... Figure 1: Main Menu If you can't find the setting you want, please press "Ctrl+F1" to search the hidden advanced option. Standard CMOS Features This setup page includes all the items in standard compatible BIOS. Advanced BIOS Features This setup page includes all the items of Award special enhanced features. 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only. N400 Pro2 / N400 Series Motherboard - 40 - Advanced Chipset Features This setup page includes all the items of Chipset special enhanced features.

English Integrated Peripherals This setup page includes all onboard peripherals. Power Management Setup This setup page includes all the items of Green function features. PnP/PCI Configurations This setup page includes all the configurations of PCI & PnP ISA resources. PC Health Status This setup page is the System auto detect Temperature, voltage, fan, speed. Frequency/Voltage Control This setup page is control CPU's clock and frequency ratio. Load Fail-Safe Defaults Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration. Load Optimized Defaults Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration. Set Supervisor password Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup. Set User password Change, set, or disable password. It allows you to limit access to the system. Save & Exit Setup Save CMOS value settings to CMOS and exit setup. Exit Without Saving Abandon all CMOS value changes and exit setup. - 41 - BIOS Setup English Standard CMOS Features CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Standard CMOS Features Date (mm:dd:yy) Time (hh:mm:ss) IDE Primary Master IDE Primary Slave IDE Secondary Master IDE Secondary Slave Drive A Drive B Floppy 3 Mode Support Halt On Base Memory Extended Memory Total Memory Tue, May 20 2003 22:31:24 [None] [None] [None] [None] [1.44M, 5"] [None] [Disabled] <Day> [All, But Keyboard] 640K 95M 96M <Year> 1999 to 2098 F1: General Help 1 to 31 (or maximum allowed in the month) <Week> Sun. to Sat. <Month> Jan. to Dec. Item Help Menu Level Change the day, month, year : Move Enter:Select +/-/PU/PD: Value F10: Save ESC:Exit F5: Previous Values F6: Fail-Safe Defaults Figure 2: Standard CMOS Features F7: Optimized Defaults Date The date format is <week>, <month>, <day>, <year>. Week Month Day Year The week, from Sun to Sat, determined by the BIOS and is display only The month, Jan. Through Dec. The day, from 1 to 31 (or the maximum allowed in the month) The year, from 1999 through 2098 N400 Pro2 / N400 Series Motherboard - 42 - Time The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00. English IDE Primary Master, Slave / IDE Secondary Master, Slave The category identifies the types of hard disk from drive C to F that has been installed in the computer.



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There are two types: auto type, and manual type. Manual type is user-definable; Auto type which will automatically detect HDD type.

Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category. If you select User Type, related information will be asked to enter to the following items. Enter the information directly from the keyboard and press <Enter>. Such information should be provided in the documentation form your hard disk vendor or the system manufacturer.

CYLS. HEADS PRECOMP LANDZONE SECTORS Number of cylinders Number of heads Write precomp Landing zone Number of sectors If a hard disk has not been installed select NONE and press <Enter>. Drive A / Drive B The category identifies the types of floppy disk drive A or drive B that has been installed in the computer. None 360K, 5.25" 1.2M, 5.25" No floppy drive installed 5.25 inch PC-type standard drive; 360K byte capacity. 5.25 inch AT-type high-density drive; 1.

2M byte capacity (3.5 inch when 3 Mode is Enabled). 720K, 3.5" 1.44M, 3.5" 2.88M, 3.5" 3.5 inch double-sided drive; 720K byte capacity 3.5 inch double-sided drive; 1.

44M byte capacity. 3.5 inch double-sided drive; 2.88M byte capacity. - 43 - BIOS Setup English Floppy 3 Mode Support (for Japan Area) Disabled Drive A Drive B Both Normal Floppy Drive.

(Default value) Drive A is 3 mode Floppy Drive. Drive B is 3 mode Floppy Drive. Drive A & B are 3 mode Floppy Drives. Halt on The category determines whether the computer will stop if an error is detected during power up. NO Errors All Errors The system boot will not stop for any error that may be detected and you will be prompted.

Whenever the BIOS detects a non-fatal error the system boot will be stopped. All, But Keyboard The system boot will not stop for all errors except a keyboard error. (Default value) All, But Diskette All, But Disk/Key The system boot will not stop for all errors except a disk error. The system boot will not stop for all errors except keyboard and disk errors. Memory The category is display-only which is determined by POST (Power On Self Test) of the BIOS. Base Memory The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system. The value of the base memory is typically 512 K for systems with 512K memory installed on the motherboard, or 640 K for systems with 640 K or more memory installed on the motherboard.

ExtendedMemory The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1MB in the CPU's memory address map. N400 Pro2 / N400 Series Motherboard - 44 - Advanced BIOS Features CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Advanced BIOS Features SCSI/RAID Cntlr Boot Order First Boot Device Second Boot Device Third Boot Device Boot Up Floppy Seek Password

Check Flexible AGP 8X Init Display First [Press Enter] [Floppy] [HDD-0] [CDROM] [Disabled] [Setup] [Auto] [PCI] Item Help Menu Level Select onboard RAID or PCI SCSI boot rom order English : Move Enter:Select +/-/PU/PD: Value F10: Save ESC:Exit F5: Previous Values F6: Fail-Safe Defaults Figure 3: Advanced BIOS Features F1: General Help F7: Optimized Defaults SCSI/RAID Cntlr Boot Order This feature allows you to select the boot order Serial ATA, RAID or SCSI device.

Select boot Sequence for onboard (or add-on cards)SCSI,RAID,etc. 1.ITE RAID Controller 2.Silicon Image RAID Controller First / Second / Third Boot Device Floppy LS120 HDD 0~3 SCSI CDROM ZIP USB-FDD Select your boot device priority by Floppy. Select your boot device priority by LS120. Select your boot device priority by Hard Disk 0~3. Select your boot device priority by SCSI. Select your boot device priority by CDROM. Select your boot device priority by ZIP. Select your boot device priority by USB-FDD.

- 45 - BIOS Setup English USB-ZIP USB-CDROM USB-HDD LAN Disabled Select your boot device priority by USB-ZIP. Select your boot device priority by USB-CDROM. Select your boot device priority by USB-HDD. Select your boot device priority by LAN. Select your boot device priority by Disabled.

Boot Up Floppy Seek During POST, BIOS will determine the floppy disk drive installed is 40 or 80 tracks. 360K type is 40 tracks 720K, 1.2M and 1.44M are all 80 tracks. Enabled BIOS searches for floppy disk drive to determine it is 40 or 80 tracks.

Note that BIOS can not tell from 720K, 1.2M or 1.44M drive type as they are all 80tracks. BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360K. (Default value) Disabled Password Check System Setup The system will not boot and will not access to Setup page if the correct password is not entered at the prompt. The system will boot but will not access to Setup page if the correct password is not entered at the prompt. (Default value) Flexible AGP 8X Auto 4X Automatically set AGP transfer rate according to AGP compatibility and stability. (Default value) Set AGP transfer rate to 4X mode no matter what the AGP transfer rate the card is. Init Display First This feature allows you to select the first initiation of the monitor display from which card when you install an AGP card and a PCI VGA card on board.

PCI AGP Set initial display first to PCI slot. (Default value) Set initial display first to AGP. N400 Pro2 / N400 Series Motherboard - 46 - Advanced Chipset Features CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Advanced Chipset Features System Performance FSB Frequency Memory Frequency Resulting Frequency AGP Frequency [Normal] [133MHz] By SPD 266MHz [Normal] [Normal] - Use the most stable settings. Item Help Menu Level English

[Turbo] -Use over colocked settings for higher performance but with higher risk of instability. : Move Enter:Select +/-/PU/PD: Value F10: Save ESC:Exit F5: Previous Values F6: Fail-Safe Defaults F1: General Help F7: Optimized Defaults Figure 4: Advanced Chipset Features System Performance Normal Turbo Manual Set system at the most stable settings. (Default Value) Use over colocked settings for higher performance but with higher risk of instability. Allows full customization of performance options. Incorrect using it may cause your system to fail. For power End-User use only! FSB Frequency 100 MHz 133 MHz 166 MHz 200 MHz Set FSB frequency at 100MHz. Set FSB frequency at 133MHz.

(Default Value) Set FSB frequency at 166MHz. Set FSB frequency at 200MHz. - 47 - BIOS Setup English Memory Frequency By SPD 50%~200% Auto Set memory frequency by SPD. (Default Value) Set the memory frequency manually. Set the best memory frequency for system.

Incorrect using it may cause your system to fail. For power End-User use only! Resulting Frequency The value depends on FSB/Memory Frequency. AGP Frequency Normal Set the best AGP frequency for system.



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(Default Value) 50MHz ~ 100MHz Set the AGP frequency manually. Incorrect using it may cause your system broken.

For power End-User use only! N400 Pro2 / N400 Series Motherboard - 48 - Integrated Peripherals CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Integrated Peripherals On-Chip Primary PCI IDE On-Chip Secondary PCI IDE USB Host Controller USB Keyboard Support USB Mouse Support AC97 Audio Onboard LAN Chip(13) Onboard H/W 1394 (1) Onboard H/W Serial ATA (1) Serial ATA Function (1) Onboard H/W RAID (1) GigaRAID Function (1) Onboard LAN Boot ROM(13) Onboard Serial Port 1 Onboard Serial Port 2 UART Mode Select x UR2 Duplex Mode Onboard Parallel Port Parallel Port Mode ECP Mode Use DMA Game Port Address Midi Port Address Midi Port IRQ [Enabled] [Enabled] [V1.1+V2.0] [Disabled] [Disabled] [Auto] [Enabled] [Enabled] [Enabled] [RAID] [Enabled] [RAID] [Disabled] [3F8/IRQ4] [2F8/IRQ3] [Normal] Half [378/IRQ7] [ECP] [3] [201] [330] [10] [Enabled] Enabled onboard IDE Port [Disabled] Disabled onboard IDE Port Item Help Menu Level If a hard disk controller card is used, set at Disabled English : Move Enter:Select +/-/PU/PD: Value F10: Save ESC:Exit F5: Previous Values F6: Fail-Safe Defaults Figure 5: Integrated Peripherals F1: General Help F7: Optimized Defaults 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only. - 49 - BIOS Setup English On-Chip Primary PCI IDE Enabled Disabled Enable onboard 1st channel IDE port. (Default value) Disable onboard 1st channel IDE port. On-Chip Secondary PCI IDE Enabled Disabled Enable onboard 2nd channel IDE port. (Default value) Disable onboard 2nd channel IDE port. USB Host Controller Disabled V1.

1+V2.0 V1.1 Disable USB controller. Set USB controller at USB1.1 and USB2.0. (Default Value) Set USB controller at USB1.1. USB Keyboard Support Enabled Disabled Enable USB Keyboard Support. Disable USB Keyboard Support.

(Default value) USB Mouse Support Enabled Disabled Enable USB Mouse Support. Disable USB Mouse Support. (Default value) AC97 Audio Auto Disabled Auto detect AC'97 audio function. (Default Value) Disable AC'97 audio function. 13) 13 Onboard LAN chip(13 Enabled Disabled Auto detect onborad LAN function.

(Default Value) Disable this function. 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only. N400 Pro2 / N400 Series Motherboard - 50 - 1 Onboard H/W 1394 (1) English Enabled Disabled Auto detect on-chip 1394 function.

(Default Value) Disable this function. 1 Onboard H/W Serial ATA (1) Enabled Disabled Enable onboard H/W Serial ATA chip function. (Default Value) Disable this function. 1 Serial ATA Function(1) RAID BASE Select onboard serial ATA chip function as RAID. (Default value) Select onboard serial ATA chip function as base. 1 Onboard H/W RAID (1) Enabled Disabled Enable onboard GigaRAID chip function. (Default value) Disable this function. 1 GigaRAID Function(1) RAID ATA Select onboard GigaRAID chip function as RAID. (Default value) Select onboard GigaRAID chip function as ATA. 13) 13 Onboard LAN Boot ROM(13 This function decide whether to invoke the boot ROM of the onboard LAN chip.

Enabled Disabled Enable Onboard LAN chip function. Disable this function. (Default value) Onboard Serial Port 1 Disabled 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Auto Disable onboard Serial port 1. Enable onboard Serial port 1 and address is 3F8, using IRQ4. (Default value) Enable onboard Serial port 1 and address is 2F8, using IRQ3. Enable onboard Serial port 1 and address is 3E8, using IRQ4. Enable onboard Serial port 1 and address is 2E8, using IRQ3.

BIOS will automatically setup the port 1 address. BIOS Setup 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only.

3 For GA-7N400-L only. - 51 - English Onboard Serial Port 2 Disabled 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Auto Disable onboard Serial port 2. Enable onboard Serial port 2 and address is 3F8, using IRQ4. Enable onboard Serial port 2 and address is 2F8, using IRQ3. (Default value) Enable onboard Serial port 2 and address is 3E8, using IRQ4.

Enable onboard Serial port 2 and address is 2E8, using IRQ3. BIOS will automatically setup the port 2 address. UART Mode Select This item allows you to determine which Infra Red(IR) function of Onboard I/O chip. Normal IrDA ASKIR Set onboard I/O chip UART to Normal Mode. (Default Value) Set onboard I/O chip UART to IrDA Mode.

Set onboard I/O chip UART to ASKIR Mode. UR2 Duplex Mode This feature allows you to select IR mode. This function will available when "UART Mode Select" doesn't set at "Normal" nor "SCR". Half Full IR Function Duplex Half. (Default Value) IR Function Duplex Full. Onboard Parallel port This feature allows you to select from a given set of parameters if the parallel port uses the onboard I/O controller. Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7 Disable onboard LPT port. Enable onboard LPT port and address is 378, using IRQ7. (Default Value) Enable onboard LPT port and address is 278, using IRQ5. Enable onboard LPT port and address is 3BC, using IRQ7.

Parallel Port Mode This feature allows you to connect with an advanced printer via the port mode it supports. SPP EPP ECP ECP+EPP Using Parallel port as Standard Parallel Port. Using Parallel port as Enhanced Parallel Port. Using Parallel port as Extended Capabilities Port. (Default Value) Using Parallel port as ECP & EPP mode. - 52 - N400 Pro2 / N400 Series Motherboard ECPMode UseDMA This feature allows you to select Direct Memory Access(DMA) channel if the ECP mode selected. This function will available when "Parallel Port Mode" set at ECP or ECP+EPP. 3 1 Set ECP Mode Use DMA to 3.

(Default Value) Set ECP Mode Use DMA to 1. English Game Port Address Disabled 201 209 Disable this function.

Set Game Port Address to 201. @@Set Midi Port Address to 330. @@Set Midi Port IRQ to 10. @@@@Press power button then Power off instantly. (Default value) Press power button 4 sec.

to Power off. @@Enable PME Event Wake up. @@Disabled Enabled Disable Modem Ring on function. Enable Modem Ring on function. @@Disabled Enabled Disable this function.

@@Disabled Enabled Disable this function. (Default Value) Enable alarm function to POWER ON system. If RTC Alarm Lead To Power On is Enabled. @@@@Disables this function. @@@@Clear case open status at next boot. Case Opened (Default value) Clear case open status at next boot. Case Opened If the case is closed, "Case Opened" will show "No". If the case have been opened, "Case Opened" will show "Yes". If you want to reset "Case Opened" value, set "Reset Case Open Status" to "Enabled" and save CMOS, your computer will restart. 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only.

3 For GA-7N400-L only. N400 Pro2 / N400 Series Motherboard - 58 - Current Voltage (V) Vcore / DDR25V / +3.3V / +5V / +12V Detect system's voltage status automatically. English Current System Temperature Detect System temperature automatically.



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Current CPU Temperature Detect CPU temperature automatically. Current CPU/POWER1/SYSTEM FAN Speed (RPM) Detect CPU/POWER/SYSTEM Fan speed status automatically. CPU Warning Temperature 60 o C / 140 o F 70 o C / 158 o F 80 o C / 176 o F 90 o C / 194 o F Disabled Monitor CPU Temp. at 60o C / 140o F. Monitor CPU Temp. at 70o C / 158o F.

Monitor CPU Temp. at 80o C / 176o F. Monitor CPU Temp. at 90o C / 194o F. Disable this function.

(Default value) CPU FAN Fail Warning Disabled Enabled Fan Warning Function Disable. (Default value) Fan Warning Function Enable. POWER FAN Fail Warning1 Disabled Enabled Fan Warning Function Disable. (Default value) Fan Warning Function Enable. SYSTEM FAN Fail Warning Disabled Enabled Fan Warning Function Disable.

(Default value) Fan Warning Function Enable. CPU Smart FAN Control1 Enabled Enable CPU Smart Fan control function. (Default value) a. When the CPU temperature is higher than 40 degrees Celsius, CPU fan will run at full speed. b. When the CPU temperature is lower than 40 degrees Celsius, CPU fan will run at low speed. Disable this function. Disabled 1 For GA-7N400 Pro2 only. 2 For GA-7N400 only. 3 For GA-7N400-L only.

- 59 BIOS Setup English Frequency/Voltage Control CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Frequency/Voltage Control VCORE OverVoltage Control DIMM OverVoltage Control AGP OverVoltage Control [Normal] [Normal] [Normal] Item Help Menu Level : Move Enter:Select +/-/PU/PD: Value F10: Save ESC:Exit F5: Previous Values F6: Fail-Safe Defaults F1: General Help F7: Optimized Defaults Figure 9: Frequency/Voltage Control VCORE OverVoltage Control Increase VCORE voltage may get stable for Over_Clock. But it may damage to CPU when enable this feature. Normal Supply voltage as CPU required. (Default value) +5% / +7.5% / +10% Increase voltage range as user selected. DIMM OverVoltage Control Normal +0.1V +0.2V Set DIMM OverVoltage Control to Normal. (Default value) Set DIMM OverVoltage Control to +0.1V.

Set DIMM OverVoltage Control to +0.2V. Incorrect using it may cause your system to fail. For power End-User use only! AGP OverVoltage Control Normal +0.1V +0.

2V +0.3V Set AGP OverVoltage Control to Normal. (Default value) Set AGP OverVoltage Control to +0.1V. Set AGP OverVoltage Control to +0.

2V. Set AGP OverVoltage Control to +0.3V. Incorrect using it may cause your system to fail. For power End-User use only! N400 Pro2 / N400 Series

Motherboard - 60 - Load Fail-Safe Defaults CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults English Load Fail-Safe Defaults (Y/N) ? Supervisor Password Integrated Peripherals Set Y Power Management Setup PnP/PCI Configurations PC Health Status ESC: Quit F8: Dual BIOS / Q-Flash Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Load Fail-Safe Defaults Figure 10: Load Fail-Safe

Defaults Load Fail-Safe Defaults Fail-Safe defaults contain the most appropriate values of the system parameters that allow minimum system performance. - 61 - BIOS Setup English Load Optimized Defaults CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Standard CMOS Features Advanced BIOS

Features Advanced Chipset Features Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults (Y/N) ? Y Integrated Peripherals Set Supervisor Password Power Management Setup PnP/PCI Configurations PC Health Status ESC: Quit F8: Dual BIOS / Q-Flash

Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Load Optimized Defaults Figure 11: Load Optimized Defaults Load Optimized Defaults

Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects. N400 Pro2 / N400 Series Motherboard - 62 - Set Supervisor/User Password CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Standard CMOS Features

Advanced BIOS Features Advanced Chipset Features Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Change/Set/Disable Password Figure 12: Password Setting

English Enter Password: Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status ESC: Quit F8: Dual BIOS / Q-Flash When you select this function, the following message will appear at the center of the screen to assist you in creating a password. Type the password, up to eight characters, and press <Enter>. You will be asked to confirm the password. Type the password again and press <Enter>.

You may also press <Esc> to abort the selection and not enter a password. To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely. The BIOS Setup program allows you to specify two separate passwords: SUPERVISOR PASSWORD and a USER PASSWORD.

When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items. If you select "System" at "Password Check" in Advance BIOS Features Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu. If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup. - 63 - BIOS Setup English Save & Exit

Setup CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Save Data to CMOS Figure 13: Save & Exit Setup Power Management Setup PnP/PCI

Configurations PC Health Status ESC: Quit F8: Dual BIOS / Q-Flash Save to CMOS and EXIT (Y/N) ? Y Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS.

Type "N" will return to Setup Utility. N400 Pro2 / N400 Series Motherboard - 64 - Exit Without Saving CMOS Setup Utility-Copyright (C) 1984-2003 Award Software Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Frequency/Voltage Control Load Fail-Safe

Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Abandon all Data Figure 14: Exit Without Saving English Power Management Setup PnP/PCI Configurations PC Health Status ESC: Quit F8: Dual BIOS /

Q-Flash Quit Without Saving (Y/N) ? N Type "Y" will quit the Setup Utility without saving to RTC CMOS.



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