Copyright Notice:

No part of this installation guide may be reproduced, transcribed, transmitted, or translated in any language, in any form or by any means, except duplication of documentation by the purchaser for backup purpose, without written consent of ASRock Inc.
Products and corporate names appearing in this guide may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

Disclaimer:

Specifications and information contained in this guide are furnished for informational use only and subject to change without notice, and should not be constructed as a commitment by ASRock. ASRock assumes no responsibility for any errors or omissions that may appear in this guide.
With respect to the contents of this guide, ASRock does not provide warranty of any kind, either expressed or implied, including but not limited to the implied warranties or conditions of merchantability or fitness for a particular purpose. In no event shall ASRock, its directors, officers, employees, or agents be liable for any indirect, special, incidental, or consequential damages (including damages for loss of profits, loss of business, loss of data, interruption of business and the like), even if ASRock has been advised of the possibility of such damages arising from any defect or error in the guide or product.

FC

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 interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

CALIFORNIA, USA ONLY
The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.
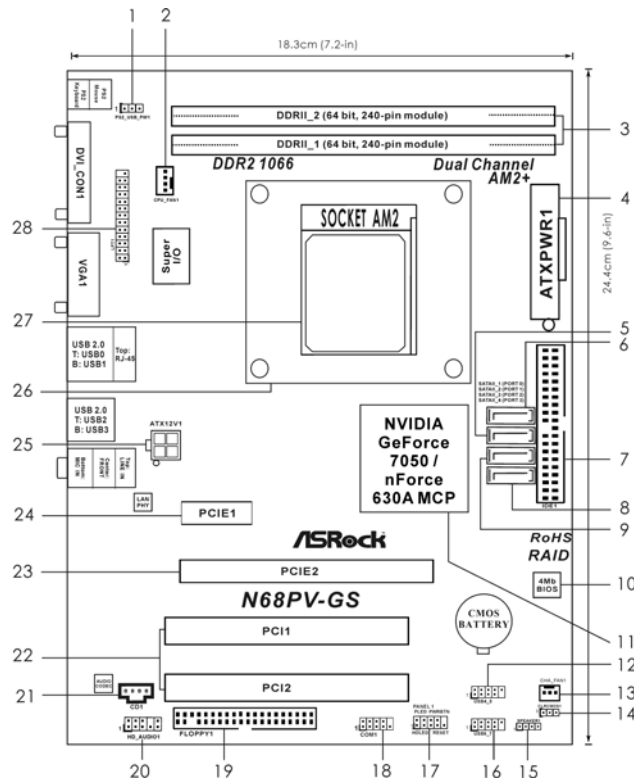"Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate"

ASRock Website: http://www.asrock.com

English

Motherboard Layout

1	PS2_USB_PW1 Jumper
2	CPU Fan Connector (CPU_FAN1)
3	2 x 240-pin DDR2 DIMM Slots
	(Dual Channel: DDRII_1, DDRII_2; Yellow)
4	ATX Power Connector (ATXPWR1)
5	Secondary SATAII Connector (SATAII_2 (PORT1))
6	Primary SATAII Connector (SATAII_1 (PORT0))
7	Primary IDE Connector (IDE1, Blue)
8	Fourth SATAII Connector (SATAII_4 (PORT3))
9	Third SATAII Connector (SATAII_3 (PORT2))
10	SPI Flash Memory (4Mb)
11	NVIDIA GeForce 7050 / nForce 630A MCP
12	USB 2.0 Header (USB4_5, Blue)
13	Chassis Fan Connector (CHA_FAN1)
14	Clear CMOS Jumper (CLRCMOS1)
15	Chassis Speaker Header
	(SPEAKER 1, Purple)

16	USB 2.0 Header (USB6_7, Blue)
17	System Panel Header (PANEL1, Orange)
18	Serial Port Connector (COM1)
19	Floppy Connector (FLOPPY1)
20	Front Panel Audio Header
	(HD_AUDIO1, Lime)
21	Internal Audio Connector: CD1 (Black)
22	PCI Slots (PCI1- 2)
23	PCI Express x16 Slot (PCIE2)
24	PCI Express x1 Slot (PCIE1)
25	ATX 12V Power Connector (ATX12V1)
26	CPU Heatsink Retention Module
27	AM2 940-Pin CPU Socket
28	Print Port Header (LPT1, Purple)

English

I/O Panel
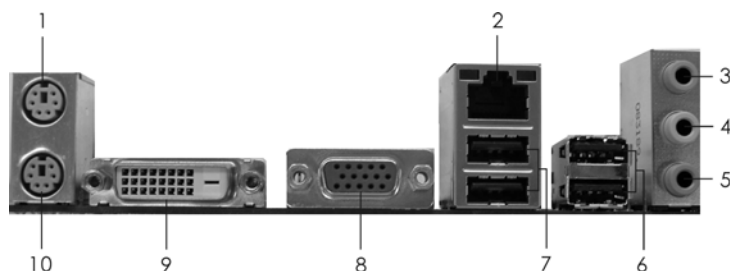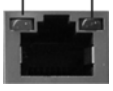
1	**PS/2 Mouse Port (Green)**	**6**	**USB 2.0 Ports (USB23)**
* 2	**RJ-45 Port**	**7**	**USB 2.0 Ports (USB01)**
3	**Line In (Light Blue)**	**8**	**VGA/D-Sub Port**
4	**Front Speaker (Lime)**	**9**	**VGA/DVI-D Port**
** 5	**Microphone (Pink)**	**10**	**PS/2 Keyboard Port (Purple)**

* There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

LAN Port LED Indications

Activity/Link LED		SPEED LED	
Status	Description	Status	Description
Off	No Activity	Off	10Mbps connection
Blinking	Data Activity	Orange	100Mbps connection
		Green	1Gbps connection

ACT/LINK SPEED
LED   LED

LAN Port

** To enable Multi-Streaming function, you need to connect a front panel audio cable to the front panel audio header. Please refer to below steps for the software setting of Multi-Streaming.

For Windows® XP:

After restarting your computer, you will find "Mixer" tool on your system. Please select "Mixer ToolBox" , click "Enable playback multi-streaming", and click "ok". Choose "2CH" or

"4CH" and then you are allowed to select "Realtek HDA Primary output" to use Rear Speaker and Front Speaker, or select "Realtek HDA Audio 2nd output" to use front panel audio. Then reboot your system.

For Windows® Vista™:

After restarting your computer, please double-click "Realtek HD Audio Manager" on the system tray. Set "Speaker Configuration" to "Quadraphonic" or "Stereo". Click "Device advanced settings", choose "Make front and rear output devices playbacks two different audio streams simultaneously", and click "ok". Then reboot your system.

English

1. Introduction

Thank you for purchasing ASRock *N68PV-GS* motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance. In this manual, chapter 1 and 2 contain introduction of the motherboard and step-by-step guide to the hardware installation. Chapter 3 and 4 contain the configuration guide to BIOS setup and information of the Support CD.

> Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRock website without further notice. You may find the latest VGA cards and CPU support lists on ASRock website as well. ASRock website   http://www.asrock.com
> If you require technical support related to this motherboard, please visit our website for specific information about the model you are using.
> www.asrock.com/support/index.asp

1.1 Package Contents

One ASRock *N68PV-GS* Motherboard
   (Micro ATX Form Factor: 9.6-in x 7.2-in, 24.4 cm x 18.3 cm)
One ASRock *N68PV-GS* Quick Installation Guide
Two ASRock *N68PV-GS* Support CD
One 80-conductor Ultra ATA 66/100/133 IDE Ribbon Cable (Optional)
One Serial ATA (SATA) Data Cable (Optional)
One Serial ATA (SATA) HDD Power Cable (Optional)
One I/O Panel Shield

English

1.2 Specifications

Platform	- Micro ATX Form Factor: 9.6-in x 7.2-in, 24.4 cm x 18.3 cm
CPU	- Support for Socket AM2+ / AM2 processors: AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core / Athlon X2 Dual-Core / Athlon 64 / Sempron processor (see **CAUTION 1**) - Supports AMD's Cool 'n' Quiet™ Technology - FSB 1000 MHz (2.0 GT/s) - Supports Untied Overclocking Technology (see **CAUTION 2**) - Supports Hyper-Transport Technology
Chipset	- NVIDIA® GeForce 7050 / nForce 630A MCP
Memory	- Dual Channel DDR2 Memory Technology (see **CAUTION 3**) - 2 x DDR2 DIMM slots - Support DDR2 1066/800/667/533 non-ECC, un-buffered memory (see **CAUTION 4**) - Max. capacity of system memory: 4GB (see **CAUTION 5**)
Expansion Slot	- 1 x PCI Express x16 slot - 1 x PCI Express x1 slot - 2 x PCI slots
Graphics	- Integrated NVIDIA® GeForce7 Series (NV44) - DX9.0 VGA, Pixel Shader 3.0 - Max. shared memory 256MB (see **CAUTION 6**) - Dual VGA Output: support DVI-D and D-Sub ports by independent display controllers - Supports HDCP function with DVI-D port - Supports Blu-ray (BD) / HD-DVD playback up to 1080p (see **CAUTION 7**) - NVIDIA® PureVideo™ Ready
Audio	- 5.1 CH Windows® Vista™ Premium Level HD Audio (ALC662 Audio Codec) - Chipset embedded HDMI Audio
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211CL - Supports Wake-On-LAN
Rear Panel I/O	I/O Panel - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x VGA/D-Sub Port - 1 x VGA/DVI-D Port (see **CAUTION 8**) - 4 x Ready-to-Use USB 2.0 Ports

	- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
	- HD Audio Jack: Line in / Front Speaker / Microphone
Connector	- 4 x Serial ATAII 3.0Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ, AHCI and "Hot Plug" functions (see **CAUTION 9**)
	- 1 x ATA133 IDE connector (supports 2 x IDE devices)
	- 1 x Floppy connector
	- 1 x COM port header
	- 1 x Print port header
	- CPU/Chassis FAN connector
	- 24 pin ATX power connector
	- 4 pin 12V power connector
	- CD in header
	- Front panel audio header
	- 2 x USB 2.0 headers (support 4 USB 2.0 ports) (see **CAUTION 10**)
BIOS Feature	- 4Mb AMI BIOS
	- AMI Legal BIOS
	- Supports "Plug and Play"
	- ACPI 1.1 Compliance Wake Up Events
	- Supports jumperfree
	- SMBIOS 2.3.1 Support
	- Supports Smart BIOS
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version)
Unique Feature	- ASRock OC Tuner (see **CAUTION 11**)
	- Intelligent Energy Saver (see **CAUTION 12**)
	- Hybrid Booster:
	- CPU Frequency Stepless Control (see **CAUTION 13**)
	- ASRock U-COP (see **CAUTION 14**)
	- Boot Failure Guard (B.F.G.)
	- ASRock AM2 Boost: ASRock Patented Technology to boost memory performance up to 12.5% (see **CAUTION 15**)
Hardware Monitor	- CPU Temperature Sensing
	- Chassis Temperature Sensing
	- CPU Fan Tachometer
	- Chassis Fan Tachometer
	- CPU Quiet Fan
	- Voltage Monitoring: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 2000 / XP / XP 64-bit / Vista™ / Vista™ 64-bit compliant
Certifications	- FCC, CE

* For detailed product information, please visit our website: http://www.asrock.com

WARNING

Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using the third-party overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense. We are not responsible for possible damage caused by overclocking.

CAUTION!

1. This motherboard supports CPU up to 95W. Please refer to our website for CPU support list. ASRock website   http://www.asrock.com

2. This motherboard supports Untied Overclocking Technology. Please read "Untied Overclocking Technology" on page 22 for details.

3. This motherboard supports Dual Channel Memory Technology. Before you implement Dual Channel Memory Technology, make sure to read the installation guide of memory modules on page 13 for proper installation.

4. Whether 1066MHz memory speed is supported depends on the AM2+ CPU you adopt. If you want to adopt DDR2 1066 memory module on this motherboard, please refer to the memory support list on our website for the compatible memory modules.
   ASRock website   http://www.asrock.com

5. Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® XP and Windows® Vista™. For Windows® XP 64-bit and Windows® Vista™ 64-bit with 64-bit CPU, there is no such limitation.

6. The maximum shared memory size is defined by the chipset vendor and is subject to change. Please check NVIDIA® website for the latest information.

7. 1080p Blu-ray (BD) / HD-DVD playback support on this motherboard requires the proper hardware configuration. Please refer to page 9 and 10 for the minimum hardware requirement and the passed 1080p Blu-ray (BD) / HD-DVD films in our lab test.

8. This DVI-D port for the chipset adopted on this motherboard can support DVI/HDCP and HDMI format signal. You may use the DVI to HDMI adapter to convert this DVI-D port to HDMI interface. DVI to HDMI adapter is not bundled with our product, please refer to the adapter vendor for further information.

9. Before installing SATAII hard disk to SATAII connector, please read the "SATAII Hard Disk Setup Guide" on page 27 of "User Manual" in the support CD to adjust your SATAII hard disk drive to SATAII mode. You can also connect SATA hard disk to SATAII connector directly.

10. Power Management for USB 2.0 works fine under Microsoft® Windows® Vista™ 64-bit / Vista™ / XP 64-bit / XP SP1 or SP2 / 2000 SP4.

English

11. It is a user-friendly ASRock overclocking tool which allows you to surveil your system by hardware monitor function and overclock your hardware devices to get the best system performance under Windows® environment. Please visit our website for the operation procedures of ASRock OC Tuner. ASRock website: http://www.asrock.com

12. Featuring an advanced proprietary hardware and software design, Intelligent Energy Saver is a revolutionary technology that delivers unparalleled power savings. The voltage regulator can reduce the number of output phases to improve efficiency when the CPU cores are idle. In other words, it is able to provide exceptional power saving and improve power efficiency without sacrificing computing performance. To use Intelligent Energy Saver function, please enable Cool 'n' Quiet option in the BIOS setup in advance. Please visit our website for the operation procedures of Intelligent Energy Saver.
ASRock website: http://www.asrock.com

13. Although this motherboard offers stepless control, it is not recommended to perform over-clocking. Frequencies other than the recommended CPU bus frequencies may cause the instability of the system or damage the CPU.

14. While CPU overheat is detected, the system will automatically shutdown. Before you resume the system, please check if the CPU fan on the motherboard functions properly and unplug the power cord, then plug it back again. To improve heat dissipation, remember to spray thermal grease between the CPU and the heatsink when you install the PC system.

15. This motherboard supports ASRock AM2 Boost overclocking technology. If you enable this function in the BIOS setup, the memory performance will improve up to 12.5%, but the effect still depends on the AM2 CPU you adopt. Enabling this function will overclock the chipset/CPU reference clock. However, we can not guarantee the system stability for all CPU/DRAM configurations. If your system is unstable after AM2 Boost function is enabled, it may not be applicative to your system. You may choose to disable this function for keeping the stability of your system.

English

1.3 Minimum Hardware Requirement for 1080p Blu-ray (BD) / HD-DVD Playback Support

1080p Blu-ray (BD) / HD-DVD playback support on this motherboard requires the proper hardware configuration. Please refer to below table for the minimum hardware requirement.

CPU	AMD Phenom X4 9100
VGA	Onboard VGA with DVI-D port
Memory	Dual Channel DDR2 800, 1GB x 2
Suggested OS	Windows® Vista™ or Windows® Vista™ 64

* If you need to use CyberLink PowerDVD Ultra version 7.3, we suggest to disable Hardware Acceleration function for better playback performance and compatibility. After executing CyberLink PowerDVD Ultra program, please follow below steps to disable Hardware Acceleration function.

A. Right-click the main page of CyberLink PowerDVD Ultra program.
B. Click "Configuration".
C. Select "Video".
D. Click "Enable hardware acceleration (nVidia PureVideo)" to remove the "V" mark in this item.
E. Click "OK" to save the change.

1.4 Passed 1080p Blu-ray (BD) / HD-DVD Films in Our Lab Test

DVD Type	Film Name	Format	Producer
Blu-ray DVD	SWORDFISH	VC-1	WB
	THE TRANSPORTER	MPEG-2	FOX
	UNDERWORLD EVOLUTION	MPEG-2	SONY
	GLORY ROAD	MPEG-4-AVC	WALT DISNEY
	THE LEAGUE OF EXTRAORDINARY GENTLEMEN	MPEG-4-AVC	FOX
HD-DVD	KING KONG	VC-1	UNIVERSAL
	MISSION IMPOSSIBLE III	VC-1	PARAMOUNT
	THE CHRONICLES OF RIDDICK	VC-1	UNIVERSAL
	THE LAST SAMURAI	VC-1	WBHIDEF
	A VIEW FROM SPACE	MPEG-2	WEA
	NEW ORLEANS CONCERT	MPEG-2	WEA
	ONE SIX RIGHT	MPEG-2	TERWILLIGER
	THE INTERPRETER	MPEG-4-AVC	UNIVERSAL

* MPEG-4-AVC mentioned above refers to the same format of H.264.
* Above passed films are tested under below configuration.

Items	Configurations
CPU	AMD Phenom X4 9100
VGA	Onboard VGA with DVI-D port
Memory	Dual Channel DDR2 800, 1GB x 2
OS	Windows® Vista™ or Windows® Vista™ 64
Playback Software	CyberLink PowerDVD Ultra
DVD Player	Pioneer BDR-101A / LG GBW-H10N (BD)
	HP HD100 (HD-DVD)

English

ASRock N68PV-GS Motherboard

2. Installation

This is a Micro ATX form factor (9.6-in x 7.2-in, 24.4 cm x 18.3 cm) motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.

Pre-installation Precautions

Take note of the following precautions before you install motherboard components or change any motherboard settings.

> Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

1. Unplug the power cord from the wall socket before touching any component.
2. To avoid damaging the motherboard components due to static electricity, NEVER place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you uninstall any component, place it on a grounded anti-static pad or in the bag that comes with the component.
5. When placing screws into the screw holes to secure the motherboard to the chassis, please do not over-tighten the screws! Doing so may damage the motherboard.
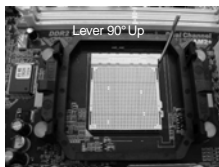
2.1 CPU Installation

Step 1. Unlock the socket by lifting the lever up to a 90° angle.

Step 2. Position the CPU directly above the socket such that the CPU corner with the golden triangle matches the socket corner with a small triangle.

Step 3. Carefully insert the CPU into the socket until it fits in place.

> The CPU fits only in one correct orientation. DO NOT force the CPU into the socket to avoid bending of the pins.

Step 4. When the CPU is in place, press it firmly on the socket while you push down the socket lever to secure the CPU. The lever clicks on the side tab to indicate that it is locked.

Lever 90° Up

CPU Golden Triangle

Socker Corner Small Triangle

STEP 1:
Lift Up The Socket Lever
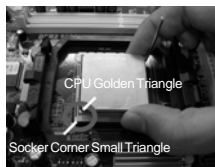
STEP 2 / STEP 3:
Match The CPU Golden Triangle To The Socket Corner Small Triangle

STEP 4:
Push Down And Lock The Socket Lever

2.2 Installation of CPU Fan and Heatsink

After you install the CPU into this motherboard, it is necessary to install a larger heatsink and cooling fan to dissipate heat. You also need to spray thermal grease between the CPU and the heatsink to improve heat dissipation. Make sure that the CPU and the heatsink are securely fastened and in good contact with each other. Then connect the CPU fan to the CPU FAN connector (CPU_FAN1, see Page 2, No. 2). For proper installation, please kindly refer to the instruction manuals of the CPU fan and the heatsink.

2.3 Installation of Memory Modules (DIMM)

N68PV-GS motherboard provides two 240-pin DDR2 (Double Data Rate 2) DIMM slots, and supports Dual Channel Memory Technology. For dual channel configuration, you always need to install two **identical** (the same brand, speed, size and chip-type) memory modules in the DDR2 DIMM slots to activate Dual Channel Memory Technology. Otherwise, it will operate at single channel mode.

> 1. It is not allowed to install a DDR memory module into DDR2 slot; otherwise, this motherboard and DIMM may be damaged.
> 2. If you install only one memory module or two non-identical memory modules, it is unable to activate the Dual Channel Memory Technology.

Installing a DIMM

> Please make sure to disconnect power supply before adding or removing DIMMs or the system components.

Step 1.   Unlock a DIMM slot by pressing the retaining clips outward.

Step 2.   Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.
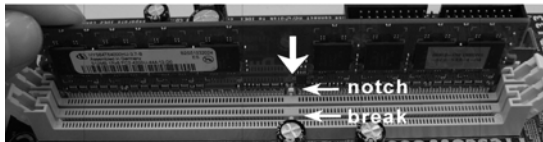
> The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation.

Step 3.   Firmly insert the DIMM into the slot until the retaining clips at both ends fully snap back in place and the DIMM is properly seated.

2.4 Expansion Slots (PCI and PCI Express Slots)

There are 2 PCI slots and 2 PCI Express slots on this motherboard.

PCI slots: PCI slots are used to install expansion cards that have the 32-bit PCI interface.

PCIE slots: PCIE1 (PCIE x1 slot) is used for PCI Express cards with x1 lane width cards, such as Gigabit LAN card, SATA2 card, etc.
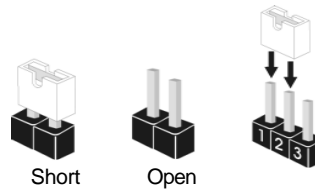PCIE2 (PCIE x16 slot) is used for PCI Express cards with x16 lane width graphics cards.

Installing an expansion card

Step 1. Before installing the expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.

Step 2. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.

Step 3. Align the card connector with the slot and press firmly until the card is completely seated on the slot.

Step 4. Fasten the card to the chassis with screws.

English

ASRock *N68PV-GS* Motherboard

2.5 Jumpers Setup

The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is "Short". If no jumper cap is placed on pins, the jumper is "Open". The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when jumper cap is placed on these 2 pins.

Short   Open

Jumper	Setting	
PS2_USB_PW1 (see p.2, No. 1)	1_2 +5V 2_3 +5VSB	Short pin2, pin3 to enable +5VSB (standby) for PS/2 or USB wake up events.

Note: To select +5VSB, it requires 2 Amp and higher standby current provided by power supply.

Clear CMOS Jumper (CLRCMOS1) (see p.2, No. 14)	1_2 Default 2_3 Clear CMOS	

Note: CLRCMOS1 allows you to clear the data in CMOS. The data in CMOS includes system setup information such as system password, date, time, and system setup parameters. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRCMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action.
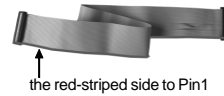
English

2.6 Onboard Headers and Connectors

> Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage of the motherboard!

Floppy Connector

(33-pin FLOPPY1)

(see p.2 No. 19)

PIN1 FLOPPY1

the red-striped side to Pin1

Note: Make sure the red-striped side of the cable is plugged into Pin1 side of the connector.

Primary IDE connector (Blue)

(39-pin IDE1, see p.2 No. 7)

PIN1 IDE1

connect the blue end to the motherboard

connect the black end to the IDE devices

80-conductor ATA 66/100/133 cable

Note: Please refer to the instruction of your IDE device vendor for the details.

Serial ATAII Connectors

(SATAII_1 (PORT 0): see p.2, No. 6)

(SATAII_2 (PORT 1): see p.2, No. 5)

(SATAII_3 (PORT 2): see p.2, No. 9)

(SATAII_4 (PORT 3): see p.2, No. 8)

SATAII_1 (PORT 0)

SATAII_2 (PORT 1)

SATAII_3 (PORT 2)

SATAII_4 (PORT 3)

These four Serial ATAII (SATAII) connectors support SATAII or SATA hard disk for internal storage devices. The current SATAII interface allows up to 3.0 Gb/s data transfer rate.
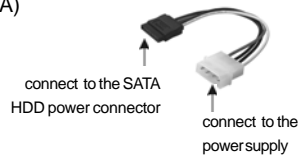
Serial ATA (SATA) Data Cable

(Optional)

Either end of the SATA data cable can be connected to the SATA / SATAII hard disk or the SATAII connector on the motherboard.
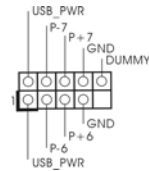
Serial ATA (SATA) Power Cable

(Optional)

connect to the SATA HDD power connector
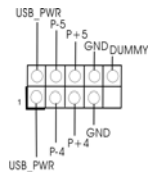
connect to the power supply

Please connect the black end of SATA power cable to the power connector on each drive. Then connect the white end of SATA power cable to the power connector of the power supply.
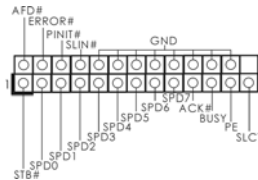
USB 2.0 Headers

(9-pin USB6_7)

(see p.2 No. 16)

USB_PWR
P-7
P+7
GND
DUMMY
1
GND
P+6
P-6
USB_PWR

Besides four default USB 2.0 ports on the I/O panel, there are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.
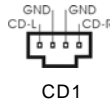
(9-pin USB4_5)
(see p.2 No. 12)

USB_PWR
P-5
P+5
GND DUMMY
1
GND
P+4
P-4
USB_PWR

Print Port Header

(25-pin LPT1)

(see p.2 No. 28)

AFD#
ERROR#
PINIT#
SLIN#
GND
1
SPD7
SPD6 ACK#
SPD5 BUSY
SPD4 PE
SPD3 SLC1
SPD2
SPD1
SPD0
STB#

This is an interface for print port cable that allows convenient connection of printer devices.

Internal Audio Connectors

(4-pin CD1)

(CD1: see p.2 No. 21)

GND GND
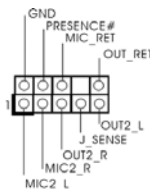CD-L CD-R

CD1

This connector allows you to receive stereo audio input from sound sources such as a CD-ROM, DVD-ROM, TV tuner card, or MPEG card.

Front Panel Audio Header

(9-pin HD_AUDIO1)

(see p.2, No. 20)

GND
PRESENCE#
MIC_RET
OUT_RE1
1
OUT2_L
J_SENSE
OUT2_R
MIC2_R
MIC2_L

This is an interface for the front panel audio cable that allows convenient connection and control of audio devices.

1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below:
   A. Connect Mic_IN (MIC) to MIC2_L.
   B. Connect Audio_R (RIN) to OUT2_R and Audio_L (LIN) to OUT2_L.
   C. Connect Ground (GND) to Ground (GND).
   D. MIC_RET and OUT_RET are for HD audio panel only. You don't need to connect them for AC'97 audio panel.

English

E. Enter BIOS Setup Utility. Enter Advanced Settings, and then select Chipset Configuration. Set the Front Panel Control option from [Auto] to [Enabled].

F. Enter Windows system. Click the icon on the lower right hand taskbar to enter Realtek HD Audio Manager.

For Windows® 2000 / XP / XP 64-bit OS:

Click "Audio I/O", select "Connector Settings"   , choose

"Disable front panel jack detection", and save the change by clicking "OK".

For Windows® Vista™ / Vista™ 64-bit OS:

Click the right-top "Folder" icon   , choose "Disable front

panel jack detection", and save the change by clicking "OK".

G. To activate the front mic.

For Windows® 2000 / XP / XP 64-bit OS:

Please select "Front Mic" as default record device.

If you want to hear your voice through front mic, please deselect "Mute" icon in "Front Mic" of "Playback" portion.
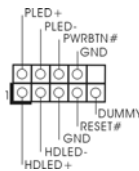
For Windows® Vista™ / Vista™ 64-bit OS:

Go to the "Front Mic" Tab in the Realtek Control panel.

Click "Set Default Device" to make the Front Mic as the default record device.

System Panel Header		This header accommodates
(9-pin PANEL1)		several system front panel
(see p.2 No. 17)		functions.

PLED +
PLED-
PWRBTN#
GND
DUMMY
RESET#
GND
HDLED-
HDLED +
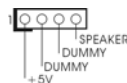
Chassis Speaker Header		Please connect the chassis
(4-pin SPEAKER 1)		speaker to this header.
(see p.2 No. 15)		

SPEAKER
DUMMY
DUMMY
+ 5V
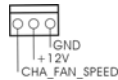
Chassis Fan Connector		Please connect a chassis fan
(3-pin CHA_FAN1)		cable to this connector and
(see p.2 No. 13)		match the black wire to the
		ground pin.

GND
+12V
CHA_FAN_SPEED

CPU Fan Connector		Please connect the CPU fan
(4-pin CPU_FAN1)		cable to this connector and
(see p.2 No. 2)		match the black wire to the
		ground pin.

FAN_SPEED_CONTROL — 4
CPU_FAN_SPEED — 3
+12V — 2
GND — 1

English

Though this motherboard provides 4-Pin CPU fan (Quiet Fan) support, the 3-Pin CPU fan still can work successfully even without the fan speed control function. If you plan to connect the 3-Pin CPU fan to the CPU fan connector on this motherboard, please connect it to Pin 1-3. **Pin 1-3 Connected** ◄—

3-Pin Fan Installation

ATX Power Connector   12   24   Please connect an ATX power
(24-pin ATXPWR1)   supply to this connector.
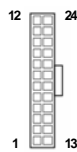(see p.2 No. 4)

                           1   13

Though this motherboard provides 24-pin ATX power connector, 12   24
it can still work if you adopt a traditional 20-pin ATX power supply.
To use the 20-pin ATX power supply, please plug your power
supply along with Pin 1 and Pin 13.

20-Pin ATX Power Supply Installation   1   13

ATX 12V Power Connector   Please note that it is necessary
(4-pin ATX12V1)   to connect a power supply with
(see p.2 No. 25)   ATX 12V plug to this connector.
                                               Failing to do so will cause power
                                               up failure.
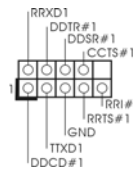
Serial port Header   RRXD1   This COM1 header
(9-pin COM1)   DDTR#1   supports a serial port module.
                          DDSR#1
(see p.2 No.18)   CCTS#1

                          RRI#1
                          RRTS#1
                          GND
                         TTXD1
                         DDCD#1

English

2.7 Driver Installation Guide

To install the drivers to your system, please insert the support CD to your optical drive first. Then, the drivers compatible to your system can be auto-detected and listed on the support CD driver page. Please follow the order from up to bottom side to install those required drivers. Therefore, the drivers you install can work properly.

2.8 Installing Windows® 2000 / XP / XP 64-bit / Vista™ / Vista™ 64-bit Without RAID Functions

If you want to install Windows® 2000, Windows® XP, Windows® XP 64-bit, Windows® Vista™ or Windows® Vista™ 64-bit on your SATA / SATAII HDDs without RAID functions, please follow below procedures according to the OS you install.

> Before installing Windows® 2000 to your system, your Windows® 2000 optical disk is supposed to include SP4. If there is no SP4 included in your disk, please visit the below website for proper procedures of making a SP4 disk:
> http://www.microsoft.com/Windows2000/downloads/servicepacks/sp4/spdeploy. htm#the_integrated_installation_fmay

2.8.1 Installing Windows® 2000 / XP / XP 64-bit Without RAID Functions

If you want to install Windows® 2000 / Windows® XP / Windows® XP 64-bit on your SATA / SATAII HDDs without RAID functions, please follow below steps.

Using SATA / SATAII HDDs without NCQ and Hot Plug functions

STEP 1: Set Up BIOS.
A.   Enter BIOS SETUP UTILITY→ Advanced screen   → IDE Configuration.
B.   Set the "SATA Operation Mode" option to [IDE].
STEP 2: Install Windows® 2000 / XP / XP 64-bit OS on your system.

2.8.2 Installing Windows® Vista™ / Vista™ 64-bit Without RAID Functions

If you want to install Windows® Vista™ / Windows® Vista™ 64-bit on your SATA / SATAII HDDs without RAID functions, please follow below steps.

Using SATA / SATAII HDDs without NCQ and Hot Plug functions

STEP 1: Set Up BIOS.
A.   Enter BIOS SETUP UTILITY→ Advanced screen → IDE Configuration.
B.   Set the "SATA Operation Mode" option to [IDE].
STEP 2: Install Windows® Vista™ / Vista™ 64-bit OS on your system.
Insert the Windows® Vista™ / Windows® Vista™ 64-bit optical disk into the optical drive
to boot your system, and follow the instruction to install Windows® Vista™ / Windows®
Vista™ 64-bit OS on your system.

Using SATA / SATAII HDDs with NCQ and Hot Plug functions

STEP 1: Set Up BIOS.
A.   Enter BIOS SETUP UTILITY→ Advanced screen → IDE Configuration.
B.   Set the "SATA Operation Mode" option to [AHCI].
STEP 2: Install Windows® Vista™ / Vista™ 64-bit OS on your system.
Insert the Windows® Vista™ / Windows® Vista™ 64-bit optical disk into the optical drive
to boot your system, and follow the instruction to install Windows® Vista™ / Windows®
Vista™ 64-bit OS on your system. When you see "Where do you want to install Windows?
" page, please insert the ASRock Support CD into your optical drive,
and click the "Load Driver" button on the left on the bottom to load the NVIDIA® AHCI
drivers. NVIDIA® AHCI drivers are in the following path in our Support CD:
(There are two ASRock Support CD in the motherboard gift box pack, please
choose the one for Windows® Vista™ / Vista™ 64-bit.)
.. \ I386 \ AHCI_Vista (For Windows® Vista™ OS)
.. \ AMD64\ AHCI_Vista64 (For Windows® Vista™ 64-bit OS)
After that, please insert Windows® Vista™ / Windows® Vista™ 64-bit optical disk into
the optical drive again to continue the installation.

2.9 Installing Windows® 2000 / XP / XP 64-bit / Vista™ / Vista™ 64-bit With RAID Functions

If you want to install Windows® 2000 / XP / XP 64-bit / Vista™ / Vista™ 64-bit on your
SATA / SATAII HDDs with RAID functions, please refer to the document at the following
path in the Support CD for detailed procedures:
..\ RAID Installation Guide

English

2.10 Untied Overclocking Technology

This motherboard supports Untied Overclocking Technology, which means during overclocking, FSB enjoys better margin due to fixed PCI / PCIE buses. Before you enable Untied Overclocking function, please enter "Overclock Mode" option of BIOS setup to set the selection from [Auto] to [CPU, PCIE, Async.]. Therefore, CPU FSB is untied during overclocking, but PCI / PCIE buses are in the fixed mode so that FSB can operate under a more stable overclocking environment.

Please refer to the warning on page 7 for the possible overclocking risk before you apply Untied Overclocking Technology.

3. BIOS Information

The Flash Memory on the motherboard stores BIOS Setup Utility. When you start up the computer, please press <F2> during the Power-On-Self-Test (POST) to enter BIOS Setup utility; otherwise, POST continues with its test routines. If you wish to enter BIOS Setup after POST, please restart the system by pressing <Ctl> + <Alt> + <Delete>, or pressing the reset button on the system chassis. The BIOS Setup program is designed to be user-friendly. It is a menu-driven program, which allows you to scroll through its various sub-menus and to select among the predetermined choices. For the detailed information about BIOS Setup, please refer to the User Manual (PDF file) contained in the Support CD.

4. Software Support CD information

This motherboard supports various Microsoft® Windows® operating systems: 2000 / XP / XP Media Center / XP 64-bit / Vista™ / Vista™ 64-bit. The Support CD that came with the motherboard contains necessary drivers and useful utilities that will enhance motherboard features. To begin using the Support CD, insert the CD into your CD-ROM drive. It will display the Main Menu automatically if "AUTORUN" is enabled in your computer. If the Main Menu does not appear automatically, locate and double-click on the file "ASSETUP.EXE" from the "BIN" folder in the Support CD to display the menus.

1. Einführung

Wir danken Ihnen für den Kauf des ASRock **N68PV-GS** Motherboard, ein zuverlässiges Produkt, welches unter den ständigen, strengen Qualitätskontrollen von ASRock gefertigt wurde. Es bietet Ihnen exzellente Leistung und robustes Design, gemäß der Verpflichtung von ASRock zu Qualität und Halbarkeit.

Diese Schnellinstallationsanleitung führt in das Motherboard und die schrittweise Installation ein. Details über das Motherboard finden Sie in der Bedienungsanleitung auf der Support-CD.

> Da sich Motherboard-Spezifikationen und BIOS-Software verändern können, kann der Inhalt dieses Handbuches ebenfalls jederzeit geändert werden. Für den Fall, dass sich Änderungen an diesem Handbuch ergeben, wird eine neue Version auf der ASRock-Website, ohne weitere Ankündigung, verfügbar sein. Die neuesten Grafikkarten und unterstützten CPUs sind auch auf der ASRock-Website aufgelistet.
> ASRock-Website: http://www.asrock.com
> Wenn Sie technische Unterstützung zu Ihrem Motherboard oder spezifische Informationen zu Ihrem Modell benötigen, besuchen Sie bitte unsere Webseite:
> www.asrock.com/support/index.asp

1.1   Kartoninhalt

ASRock **N68PV-GS** Motherboard
    (Micro ATX-Formfaktor: 24.4 cm x 18.3 cm; 9.6 Zoll x 7.2 Zoll)
ASRock **N68PV-GS** Schnellinstallationsanleitung
ASRock **N68PV-GS** Support-CD
Ein 80-adriges Ultra-ATA 66/100/133 IDE-Flachbandkabel (Option)
Ein Seriell-ATA- (SATA) Datenkabel (Option)
Ein Seriell-ATA (SATA) Festplattennetzkabel (Option)
Ein I/O Shield

Deutsch

1.2 Spezifikationen

Plattform	- Micro ATX-Formfaktor: 24.4 cm x 18.3 cm; 9.6 Zoll x 7.2 Zoll
CPU	- Unterstützung für Socket AM2+ / AM2-Prozessoren: AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dualkern / Athlon X2 Dualkern / Athlon 64 / Sempron-Prozessor (siehe **VORSICHT 1**) - Unterstützt Cool 'n' Quiet™-Technologie von AMD - FSB 1000 MHz (2.0 GT/s) - Unterstützt Untied-Übertaktungstechnologie (siehe **VORSICHT 2**) - Unterstützt Hyper-Transport-Technologie
Chipsatz	- NVIDIA® GeForce 7050 / nForce 630A MCP
Speicher	- Unterstützung von Dual-Kanal-Speichertechnologie (siehe **VORSICHT 3**) - 2 x Steckplätze für DDR2 - Unterstützt DDR2 1066/800/667/533 non-ECC, ungepufferter Speicher (siehe **VORSICHT 4**) - Max. Kapazität des Systemspeichers: 4GB (siehe **VORSICHT 5**)
Erweiterungs-steckplätze	- 1 x PCI Express x16-Steckplätze - 1 x PCI Express x1-Steckplätze - 2 x PCI -Steckplätze
Onboard-VGA	- Integrierte NVIDIA® GeForce7 Serie (NV44) - DX9.0 VGA, Pixel Shader 3.0 - Maximal gemeinsam genutzter Speicher 256 MB (siehe **VORSICHT 6**) - Doppel-VGA Ausgabe: unterstützt DVI-D und D-Sub Ports durch unabhängige Bildschirmanzeige Kontrolleure - unterstützt HDCP Funktion mit DVI-D Port - unterstützt 1080p Blu-ray (BD) / HD-DVD Playback (siehe **VORSICHT 7**) - NVIDIA® PureVideo™ betriebsbereit
Audio	- 5.1 CH Windows® Vista™ Premium Level HD Audio (ALC662 Audio Codec) - Chipsatz eingebettetes HDMI Audio
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211CL - Unterstützt Wake-On-LAN
E/A-Anschlüsse an der Rückseite	I/O Panel - 1 x PS/2-Mausanschluss - 1 x PS/2-Tastaturanschluss

Deutsch

ASRock N68PV-GS Motherboard

	- 1 x VGA/D-Sub port
	- 1 x VGA/DVI-D port (siehe **VORSICHT 8**)
	- 4 x Standard-USB 2.0-Anschlüsse
	- 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED)
	- HD Audiobuchse: Audioeingang / Lautsprecher vorne / Mikrofon
Anschlüsse	- 4 x SATAII-Anschlüsse, unterstützt bis 3.0 Gb/s
	Datenübertragungsrate, unterstützt RAID (RAID 0, RAID 1,
	RAID 0+1, RAID 5, JBOD), NCQ, AHCI und "Hot Plug" Funktionen
	(siehe **VORSICHT 9**)
	- 1 x ATA133 IDE-Anschlüsse (Unterstützt bis 2 IDE-Geräte)
	- 1 x FDD-Anschlüsse
	- 1 x COM-Anschluss-Header
	- 1 x Druckerport-Anschlussleiste
	- CPU/Gehäuse-Lüfteranschluss
	- 24-pin ATX-Netz-Header
	- 4-pin anschluss für 12V-ATX-Netzteil
	- Interne Audio-Anschlüsse
	- Anschluss für Audio auf der Gehäusevorderseite
	- 2 x USB 2.0-Anschlüsse (Unterstützung 4 zusätzlicher
	USB 2.0-Anschlüsse) (siehe **VORSICHT 10**)
BIOS	- 4Mb AMI BIOS
	- AMI legal BIOS mit Unterstützung für "Plug and Play"
	- ACPI 1.1-Weckfunktionen
	- JumperFree-Modus
	- SMBIOS 2.3.1
	- Unterstützt Smart BIOS
Support-CD	- Treiber, Dienstprogramme, Antivirussoftware
	(Probeversion)
Einzigartige	- ASRock OC Tuner (siehe **VORSICHT 11**)
Eigenschaft	- Intelligent Energy Saver (Intelligente Energiesparfunktion)
	(siehe **VORSICHT 12**)
	- Hybrid Booster:
	- Schrittloser CPU-Frequenz-Kontrolle
	(siehe **VORSICHT 13**)
	- ASRock U-COP (siehe **VORSICHT 14**)
	- Boot Failure Guard (B.F.G. – Systemstartfehlerschutz)
	- ASRock AM2 Boost: ASRocks patentgeschützte
	Technologie zur Erhöhung der Arbeitsspeicherleistung um
	bis zu 12,5% (siehe **VORSICHT 15**)
Hardware Monitor	- CPU-Temperatursensor
	- Motherboardtemperaturerkennung
	- Drehzahlmessung für CPU-Lüfter

Deutsch

	- Drehzahlmessung für Gehäuselüfter
	- CPU-Lüftergeräuschdämpfung
	- Spannungsüberwachung: +12V, +5V, +3.3V, Vcore
Betriebssysteme	- Unterstützt Microsoft® Windows® 2000 / XP / XP Media Center / XP 64-Bit / Vista™ / Vista™ 64-Bit
Zertifizierungen	- FCC, CE

* Für die ausführliche Produktinformation, besuchen Sie bitte unsere Website:

http://www.asrock.com

WARNUNG

Beachten Sie bitte, dass Overclocking, einschließlich der Einstellung im BIOS, Anwenden der Untied Overclocking-Technologie oder Verwenden von Overclocking-Werkzeugen von Dritten, mit einem gewissen Risiko behaftet ist. Overclocking kann sich nachteilig auf die Stabilität Ihres Systems auswirken oder sogar Komponenten und Geräte Ihres Systems beschädigen. Es geschieht dann auf eigene Gefahr und auf Ihre Kosten. Wir übernehmen keine Verantwortung für mögliche Schäden, die aufgrund von Overclocking verursacht wurden.

VORSICHT!

1. Dieses Motherboard unterstützt CPUs bis 95W. Auf unserer Website finden Sie eine Liste mit unterstützten CPUs.
   ASRock-Internetseite: http://www.asrock.com

2. Dieses Motherboard unterstützt die Untied-Übertaktungstechnologie. Unter "Entkoppelte Übertaktungstechnologie" auf Seite 22 finden Sie detaillierte Informationen.

3. Dieses Motherboard unterstützt Dual-Kanal-Speichertechnologie. Vor Implementierung der Dual-Kanal-Speichertechnologie müssen Sie die Installationsanleitung für die Speichermodule auf Seite 13 zwecks richtiger Installation gelesen haben.

4. Ob die Speichergeschwindigkeit 1066 MHz unterstützt wird, hängt von der von Ihnen eingesetzten AM2+-CPU ab. Schauen Sie bitte auf unseren Internetseiten in der Liste mit unterstützten Speichermodulen nach, wenn Sie DDR2 1066-Speichermodule einsetzen möchten.
   ASRock-Internetseite: http://www.asrock.com

5. Durch Betriebssystem-Einschränkungen kann die tatsächliche Speichergröße weniger als 4 GB betragen, da unter Windows® XP und Windows® Vista™ etwas Speicher zur Nutzung durch das System reserviert wird. Unter Windows® XP 64-bit und Windows® Vista™ 64-bit mit 64-Bit-CPU besteht diese Einschränkung nicht.

6. Die Maximalspeichergröße ist von den Chipshändler definiert und umgetauscht. Bitte überprüfen Sie NVIDIA® website für die neuliche Information.

7. 1080p Blu-ray (BD)/HD-DVD Playback Unterstützung auf dieser Hauptplatine fordert die passende Hardwarekonfiguration. Bitte verweisen Sie auf Seite 9 und 10 für minimal Hardware Anforderung und die überschritten 1080p Blu-ray (BD)/HD-DVD Filme in unserem Laborversuch.

8. Dieser DVI-D Port für den Chipsatz, der auf dieser Hauptplatine angenommen wird, kann DVI/HDCP und HDMI Format Signal unterstützen. Sie können das DVI zu HDMI Adapter verwenden, um diesen DVI-D Port zu HDMI Schnittstelle zu konvertieren. DVI zu HDMI Adapter wird nicht mit unserem Produkt zusammengerollt, bitte verweisen Sie auf den Adapterverkäufer für weitere Informationen.

9. Vor Installation der SATAII-Festplatte an den SATAII-Anschluss lesen Sie bitte "Setup-Anleitung für SATAII-Festplatte" auf Seite 27 der "Bedienungsanleitung" auf der Support-CD, um Ihre SATAII-Festplatte dem SATAII-Modus anzugleichen. Sie können die SATA-Festplatte auch direkt mit dem SATAII-Anschluss verbinden.

10. Das Power Management für USB 2.0 arbeitet unter Microsoft® Windows® Vista™ 64-Bit / Vista™ / XP 64-Bit / XP SP1 oder SP2/2000 SP4 einwandfrei.

11. Es ist ein benutzerfreundlicher ASRock Übertaktenswerkzeug, das erlaubt, dass Sie Ihr System durch den Hardware-Monitor Funktion zu überblicken und Ihre Hardware-Geräte übertakten, um die beste Systemleistung unter der Windows® Umgebung zu erreichen. Besuchen Sie bitte unsere Website für die Operationsverfahren von ASRock OC Tuner. ASRock-Website: http://www.asrock.com

12. Mit einer eigenen, modernen Hardware und speziellem Softwaredesign, bietet der Intelligent Energy Saver eine revolutionäre Technologie zur bisher unerreichten Energieeinsparung. Ein Spannungsregler kann die Anzahl von Ausgangsphasen zur Effektivitätsverbessserung reduzieren, wenn sich die CPU im Leerlauf befindet. Mit anderen Worten: Sie genießen außergewöhnliche Energieeinsparung und verbesserten Wirkungsgrad ohne Leistungseinschränkungen. Wenn Sie die Intelligent Energy Saver-Funktion nutzen möchten, aktivieren Sie zuvor die „Cool 'n' Quiet"-Option im BIOS. Weitere Bedienungshinweise zum Intelligent Energy Saver finden Sie auf unseren Internetseiten. ASRock-Internetseite: http://www.asrock.com

13. Obwohl dieses Motherboard stufenlose Steuerung bietet, wird Overclocking nicht empfohlen. Frequenzen, die von den empfohlenen CPU-Busfrequenzen abweichen, können Instabilität des Systems verursachen oder die CPU beschädigen.

14. Wird eine Überhitzung der CPU registriert, führt das System einen automatischen Shutdown durch. Bevor Sie das System neu starten, prüfen Sie bitte, ob der CPU-Lüfter am Motherboard richtig funktioniert, und stecken Sie bitte den Stromkabelstecker aus und dann wieder ein. Um die Wärmeableitung zu verbessern, bitte nicht vergessen, etwas Wärmeleitpaste zwischen CPU und Kühlkörper zu sprühen.

15. Dieses Motherboard unterstützt die ASRock AM2 Boost Übertaktungstechnologie. Wenn Sie diese Funktion im BIOS-Setup aktivieren, wird die Arbeitsspeicherleistung um bis zu 12,5% gesteigert. Die Wirkung hängt aber von der verwendeten AM2 CPU ab. Diese Funktion übertaktet die Standardfrequenz des Chipsatz und der CPU.

Dennoch gewähren wir die Systemstabilität nicht bei allen CPU/DRAM-Konfigurationen. Wird Ihr System nach dem Aktivieren der AM2 Boost-Funktion unstabil, dann ist diese Funktion wahrscheinlich nicht für Ihr System geeignet. Sie können diese Funktion deaktivieren, um die Stabilität Ihres System zu bewahren.

1.3 Einstellung der Jumper

Die Abbildung verdeutlicht, wie Jumper gesetzt werden. Werden Pins durch Jumperkappen verdeckt, ist der Jumper "gebrückt". Werden keine Pins durch Jumperkappen verdeckt, ist der Jumper "offen". Die Abbildung zeigt einen 3-Pin Jumper dessen Pin1 und Pin2 "gebrückt" sind, bzw. es befindet sich eine Jumper-Kappe auf diesen beiden Pins.

Gebrückt   Offen
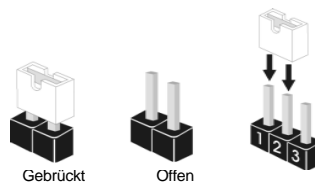
Jumper	Einstellun		
PS2_USB_PW1 (siehe S.2, No. 1)	1_2 +5V	2_3 +5VSB	Überbrücken Sie Pin2, Pin3, um +5VSB (Standby) zu setzen und die PS/2 oder USB-Weckfunktionen zu aktivieren.

Hinweis: Um +5VSB nutzen zu können, muss das Netzteil auf dieser Leitung 2A oder mehr leisten können.

CMOS löschen
(CLRCMOS1, 3-Pin jumper)
(siehe S.2, No. 14)

1_2   Default-Einstellung

2_3   CMOS löschen

Hinweis: CLRCMOS1 erlaubt Ihnen das Löschen der CMOS-Daten. Diese beinhalten das System-Passwort, Datum, Zeit und die verschiedenen BIOS-Parameter. Um die Systemparameter zu löschen und auf die Werkseinstellung zurückzusetzen, schalten Sie bitte den Computer ab und entfernen das Stromkabel. Benutzen Sie eine Jumperkappe, um die Pin 2 und Pin 3 an CLRCMOS1 für 5 Sekunden kurzzuschließen. Bitte vergessen Sie nicht, den Jumper wieder zu entfernen, nachdem das CMOS gelöscht wurde. Bitte vergessen Sie nicht, den Jumper wieder zu entfernen, nachdem das CMOS gelöscht wurde. Wenn Sie den CMOS-Inhalt gleich nach dem Aktualisieren des BIOS löschen müssen, müssen Sie zuerst das System starten und dann wieder ausschalten, bevor Sie den CMOS-Inhalt löschen.

Deutsch

ASRock *N68PV-GS* Motherboard

1.4 Anschlüsse

Anschlussleisten sind KEINE Jumper. Setzen Sie KEINE Jumperkappen auf die Pins der Anschlussleisten. Wenn Sie die Jumperkappen auf die Anschlüsse setzen, wird das Motherboard permanent beschädigt!

Anschluss   **Beschreibung**

Anschluss für das
Floppy-Laufwerk

(33-Pin FLOPPY1)

PIN1   FLOPPY1

(siehe S.2, No. 19)

die rotgestreifte Seite auf Stift 1

Hinweis: Achten Sie darauf, dass die rotgestreifte Seite des Kabel mit der Stift 1-
Seite des Anschlusses verbunden wird.

Primärer IDE-Anschluss (blau)

(39-pin IDE1, siehe S.2, No. 7)

PIN1   IDE1

Blauer Anschluss   Schwarzer Anschluss
zum Motherboard   zur Festplatte

80-adriges ATA 66/100/133 Kabel

Hinweis: Details entnehmen Sie bitte den Anweisungen Ihres IDE-Gerätehändlers.

Seriell-ATAII-Anschlüsse

(SATAII_1 (PORT 0):

siehe S.2, No. 6)   SATAII_1 (PORT 0)

(SATAII_2 (PORT 1):

siehe S.2, No. 5)   SATAII_2 (PORT 1)

(SATAII_3 (PORT 2):

siehe S.2, No. 9)   SATAII_3 (PORT 2)

(SATAII_4 (PORT 3):

siehe S.2, No. 8)   SATAII_4 (PORT 3)

Diese vier Serial ATA (SATA II) -Anschlüsse unterstützen interne SATA- oder SATA II-Festplatten. Die aktuelle SATAII-Schnittstelle ermöglicht eine Datenübertragungsrate bis 3,0 Gb/s.

Serial ATA- (SATA-)
Datenkabel

(Option)

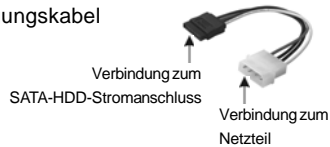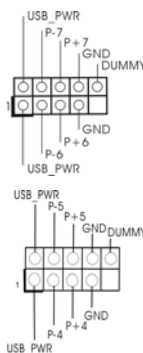Sie können beide Enden des SATA-Datenkabels entweder mit der SATA / SATAII-Festplatte oder dem SATAII-Anschluss am Mainboard verbinden.

Deutsch

Serial ATA- (SATA-)
Stromversorgungskabel

(Option)

Verbindung zum
SATA-HDD-Stromanschluss

Verbindung zum
Netzteil

Verbinden Sie das schwarze
Ende des SATA-Netzkabels mit
dem Netzanschluss am
Laufwerk. Verbinden Sie dann
das weiße Ende des SATA-
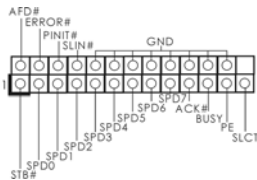Stromversorgungskabels mit
dem Stromanschluss des
Netzteils.

USB 2.0-Header

(9-pol. USB6_7)

(siehe S.2 - No. 16)

USB_PWR
P-7
P+7
GND
DUMMY

GND
P+6
P-6
USB_PWR

(9-pol. USB4_5)
(siehe S.2 - No. 12)

USB_PWR
P-5
P+5
GND
DUMMY

P+4
P-4
GND
USB_PWR

Zusätzlich zu den vier
üblichen USB 2.0-Ports an den
I/O-Anschlüssen befinden sich
zwei USB 2.0-Anschlussleisten
am Motherboard. Pro USB 2.0-
Anschlussleiste werden zwei
USB 2.0-Ports unterstützt.

Druckerport-Anschlussleiste

(25-pol. LPT1)

(siehe S.2 - No. 28)

AFD#
ERROR#
PINIT#
SLIN#
GND

SPD7
SPD6 ACK#
SPD5 BUSY
SPD4 PE
SPD3 SLCT
SPD2
SPD1
SPD0
STB#

Dies ist eine Schnittstelle zum
Anschluss eines Druckerport-
Kabels, mit dem Sie passende
Drucker auf einfache Weise
anschließen können.

Interne Audio-Anschlüsse

(4-Pin CD1)

(CD1: siehe S.2 - No. 21)

GND   GND
CD-L   CD-R

CD1
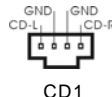
Diese ermöglichen Ihnen
Stereo-Signalquellen, wie z. B.
CD-ROM, DVD-ROM, TV-Tuner
oder MPEG-Karten mit Ihrem
System zu verbinden.

Anschluss für Audio auf
der Gehäusevorderseite

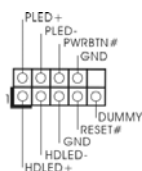(9-Pin HD_AUDIO1)

(siehe S.2, No. 20)

GND
PRESENCE#
MIC_RET
OUT_RET

OUT2_L
J_SENSE
OUT2_R
MIC2_R
MIC2_L
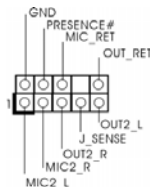
Dieses Interface zu einem
Audio-Panel auf der Vorderseite
Ihres Gehäuses, ermöglicht
Ihnen eine bequeme
Kontrolle über Audio-Geräte.

ASRock *N68PV-GS* Motherboard

1. High Definition Audio unterstützt Jack Sensing (automatische Erkennung falsch angeschlossener Geräte), wobei jedoch die Bildschirmverdrahtung am Gehäuse HDA unterstützen muss, um richtig zu funktionieren. Beachten Sie bei der Installation im System die Anweisungen in unserem Handbuch und im Gehäusehandbuch.

2. Wenn Sie die AC'97-Audioleiste verwenden, installieren Sie diese wie nachstehend beschrieben an der Front-Audioanschlussleiste:

 A. Schließen Sie Mic_IN (MIC) an MIC2_L an.

 B. Schließen Sie Audio_R (RIN) an OUT2_R und Audio_L (LIN) an OUT2_L an.

 C. Schließen Sie Ground (GND) an Ground (GND) an.

 D. MIC_RET und OUT_RET sind nur für den HD-Audioanschluss gedacht. Diese Anschlüsse müssen nicht an die AC'97-Audioleiste angeschlossen werden.

 E. Rufen Sie das BIOS-Setup-Dienstprogramm auf. Wechseln Sie zu Erweiterte Einstellungen und wählen Sie Chipset-Konfiguration. Setzen Sie die Option Frontleistenkontrolle von [Automatisch] auf [Aktiviert].

 F. Rufen Sie das Windows-System auf. Klicken Sie auf das Symbol in der Taskleiste unten rechts, um den Realtek HD Audio-Manager aufzurufen.

 Für Windows® 2000 / XP / XP 64-Bit Betriebssystem:

 Klicken Sie auf "Audio-E/A", wählen Sie die "Anschlusseinstellungen"

 , wählen Sie "Erkennung der Frontleistenbuchse deaktivieren" und speichern Sie die Änderung durch Klicken auf "OK".

 Für Windows® Vista™ / Vista™ 64-Bit Betriebssystem:

 Die Rechtoberseite „Dateiordner" Ikone anklicken ,

 „Schalttafel Buchse Entdeckung sperren" wählen und die Änderung speichern, indem Sie „OKAY" klicken.

 G. Aktivierung des vorderseitigen Mikrofons.

 Für Betriebssystem Windows® 2000 / XP / XP 64-Bit:

 Wählen Sie "Front Mic" (Vorderes Mikr.) als Standard-Aufnahmegerät. Möchten Sie Ihre Stimme über das vorderseitige Mikrofon hören, dann wählen Sie bitte das Symbol "Mute" (Stumm) unter "Front Mic" (Vorderes Mikr.) im Abschnitt "Playback" (Wiedergabe) ab.

 Für Betriebssystem Windows® Vista™ / Vista™ 64-Bit:

 Rufen Sie die Registerkarte "Front Mic" (Vorderes Mikr.) im Realtek-Bedienfeld auf. Klicken Sie auf "Set Default Device" (Standardgerät einstellen), um das vorderseitige Mikrofon als Standard-Aufnahmegerät zu übernehmen.
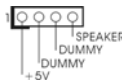
| System Panel Anschluss		Dieser Anschluss ist für die verschiedenen Funktionen der Gehäusefront.
(9-Pin PANEL1)	PLED+ PLED- PWRBTN# GND	
(siehe S.2, No. 17)	DUMMY RESET# GND HDLED- HDLED+	

Gehäuselautsprecher-Header

(4-pin SPEAKER1)

(siehe S.2, No. 15)

SPEAKER
DUMMY
DUMMY
+5V

Schließen Sie den
Gehäuselautsprecher an
diesen Header an.

Gehäuse-Lüfteranschluss

(3-pin CHA_FAN1)

(siehe S.2, No. 13)

GND
+12V
CHA_FAN_SPEED
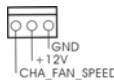
Verbinden Sie das
Gehäuselüfterkabel mit diesem
Anschluss und passen Sie den
schwarzen Draht dem
Erdungsstift an.

CPU-Lüfteranschluss

(4-pin CPU_FAN1)

(siehe S.2, No. 2)

FAN_SPEED_CONTROL   4
CPU_FAN_SPEED   3
+12V   2
GND   1

Verbinden Sie das CPU -
Lüfterkabel mit diesem
Anschluss und passen Sie den
schwarzen Draht dem
Erdungsstift an.

Obwohl dieses Motherboard einen vierpoligen CPU-Lüfteranschluss (Quiet Fan)
bietet, können auch CPU-Lüfter mit dreipoligem Anschluss angeschlossen
werden; auch ohne Geschwindigkeitsregulierung. Wenn Sie einen dreipoligen
CPU-Lüfter an den CPU-Lüferanschluss dieses Motherboards anschließen
möchten, verbinden Sie ihn bitte mit
den Pins 1 – 3.   **Pins 1–3 anschließen** ◄

Lüfter mit dreipoligem Anschluss installieren

ATX-Netz-Header

(24-pin ATXPWR1)
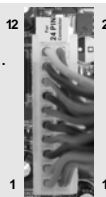
(siehe S.2, No. 4)

12   24

1   13
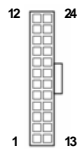
Verbinden Sie die ATX-
Stromversorgung mit diesem
Header.

Obwohl dieses Motherboard einen 24-pol. ATX-Stromanschluss
bietet, kann es auch mit einem modifizierten traditionellen 20-pol.
ATX-Netzteil verwendet werden. Um ein 20-pol. ATX-Netzteil zu
verwenden, stecken Sie den Stecker mit Pin 1 und Pin 13 ein.

12   24

1   13

Installation eines 20-pol. ATX-Netzteils

Anschluss für
12V-ATX-Netzteil

(4-pin ATX12V1)

(siehe S.2, No. 25)

Beachten Sie bitte, dass Sie eine
Stromversorgung mit ATX 12-
Volt-Stecker mit diesem
Anschluss verbinden müssen,
damit ausreichend Strom
geliefert werden kann.
Andernfalls reicht der Strom
nicht aus, das System zu starten.

ASRock N68PV-GS Motherboard

COM-Anschluss-Header
(9-pin COM1)
(siehe S.2 - No. 18)

RRXD1
DDTR#1
DDSR#1
CCTS#1
RRI#1
RRTS#1
GND
TTXD1
DDCD#1
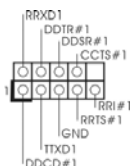
Dieser COM-Anschluss-
Header wird verwendet, um
ein COM-Anschlussmodul zu
unterstützen.

2. BIOS-Information

Das Flash Memory dieses Motherboards speichert das Setup-Utility. Drücken Sie
<F2> während des POST (Power-On-Self-Test) um ins Setup zu gelangen, ansonsten
werden die Testroutinen weiter abgearbeitet. Wenn Sie ins Setup gelangen wollen,
nachdem der POST durchgeführt wurde, müssen Sie das System über die
Tastenkombination <Ctrl> + <Alt> + <Delete> oder den Reset-Knopf auf der
Gehäusevorderseite, neu starten. Natürlich können Sie einen Neustart auch
durchführen, indem Sie das System kurz ab- und danach wieder anschalten.
Das Setup-Programm ist für eine bequeme Bedienung entwickelt worden. Es ist
ein menügesteuertes Programm, in dem Sie durch unterschiedliche Untermenüs
scrollen und die vorab festgelegten Optionen auswählen können. Für detaillierte
Informationen zum BIOS-Setup, siehe bitte das Benutzerhandbuch (PDF Datei) auf
der Support CD.

3. Software Support CD Information

Dieses Motherboard unterstützt eine Reiche von Microsoft® Windows®
Betriebssystemen: 2000 / XP / XP Media Center / XP 64-Bit / Vista™ / Vista™ 64-
Bit. Die Ihrem Motherboard beigefügte Support-CD enthält hilfreiche Software,
Treiber und Hilfsprogramme, mit denen Sie die Funktionen Ihres Motherboards
verbessern können Legen Sie die Support-CD zunächst in Ihr CD-ROM-Laufwerk
ein. Der Willkommensbildschirm mit den Installationsmenüs der CD wird
automatisch aufgerufen, wenn Sie die "Autorun"-Funktion Ihres Systems aktiviert
haben. Erscheint der Willkommensbildschirm nicht, so "doppelklicken" Sie bitte auf
das File ASSETUP.EXE im BIN-Verzeichnis der Support-CD, um die Menüs
aufzurufen. Das Setup-Programm soll es Ihnen so leicht wie möglich machen. Es
ist menügesteuert, d.h. Sie können in den verschiedenen Untermenüs Ihre
Auswahl treffen und die Programme werden dann automatisch installiert.

Deutsch

1. Introduction

Merci pour votre achat d'une carte mère ASRock *N68PV-GS*, une carte mère très fiable produite selon les critères de qualité rigoureux de ASRock. Elle offre des performances excellentes et une conception robuste conformément à l'engagement d'ASRock sur la qualité et la fiabilité au long terme.

Ce Guide d'installation rapide présente la carte mère et constitue un guide d'installation pas à pas. Des informations plus détaillées concernant la carte mère pourront être trouvées dans le manuel l'utilisateur qui se trouve sur le CD d'assistance.

> Les spécifications de la carte mère et le BIOS ayant pu être mis à jour, le contenu de ce manuel est sujet à des changements sans notification. Au cas où n'importe qu'elle modification intervenait sur ce manuel, la version mise à jour serait disponible sur le site web ASRock sans nouvel avis. Vous trouverez les listes de prise en charge des cartes VGA et CPU également sur le site Web ASRock.
> Site web ASRock,   http://www.asrock.com
> Si vous avez besoin de support technique en relation avec cette carte mère, veuillez consulter notre site Web pour de plus amples informations particulières au modèle que vous utilisez.
> www.asrock.com/support/index.asp

1.1 Contenu du paquet

Carte mère ASRock *N68PV-GS*
   (Facteur de forme Micro ATX: 9.6 pouces x 7.2 pouces, 24.4 cm x 18.3 cm)
Guide d'installation rapide ASRock *N68PV-GS*
CD de soutien ASRock *N68PV-GS*
Un câble ruban IDE Ultra ATA 66/100/133 80 conducteurs (Optionnelle)
Un câble de données Serial ATA (SATA) (Optionnelle)
Un cordon d'alimentation DD série ATA (SATA) (Optionnelle)
Un écran I/O

1.2 Spécifications

Format	- Facteur de forme Micro ATX: 9.6 pouces x 7.2 pouces, 24.4 cm x 18.3 cm

CPU	- Prise en charge des processeurs Socket AM2+ / AM2: AMD
	  Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core
	  / Athlon X2 Dual-Core / Athlon 64 / processeur Sempron
	  (voir **ATTENTION 1**)
	- Supporte la technologie Cool 'n' Quiet™ d'AMD
	- FSB 1000 MHz (2.0 GT/s)
	- Prend en charge la technologie Untied Overclocking
	  (voir **ATTENTION 2**)
	- Prise en charge de la technologie Hyper Transport

Chipsets	- NVIDIA® GeForce 7050 / nForce 630A MCP

Mémoire	- Compatible avec la Technologie de Mémoire à Canal Double
	  (voir **ATTENTION 3**)
	- 2 x slots DIMM DDR2
	- Supporter DDR2 1066/800/667/533 non-ECC, sans
	  amortissement mémoire (voir **ATTENTION 4**)
	- Capacité maxi de mémoire système: 4GB (voir **ATTENTION 5**)

Slot d'extension	- 1 x slot PCI Express x16 - 1 x slot PCI Express x1 - 2 x slots PCI

VGA sur carte	- NVIDIA® Integre Series de GeForece7 (NV44)
	- VGA DX9.0, nuanceur de pixels 3.0
	- mémoire partagée max 256MB (voir **ATTENTION 6**)
	- Output de VGA Duel: supporter DVI-D et D-Sub ports par les
	  controleurs de display independents
	- Supporter la fonction de HDCP avec le port de DVI-D
	- Supporter 1080p Blu-ray(BD)/ lecteur de HD-DVD
	  (voir **ATTENTION 7**)
	- NVIDIA PureVideo™ Prepration

Audio	- 5.1 Son haute définition de première qualité CH Windows® Vista™ (codec audio ALC662) - HDMI Audio avec Chipset enclave
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211CL - Support du Wake-On-LAN
Panneau arrière E/S	I/O Panel - 1 x port souris PS/2 - 1 x port clavier PS/2 - 1 x port VGA/D-Sub

Français

	- 1 x port VGA/DVI-D (voir **ATTENTION 8**)
	- 4 x ports USB 2.0 par défaut
	- 1 x port LAN RJ-45 avec LED (ACT/LED CLIGNOTANTE et LED VITESSE)
	- Prise HD Audio: Entrée Ligne / Haut-parleur frontal / Microphone
Connecteurs	- 4 x connecteurs SATAII, prennent en charge un taux de transfert de données pouvant aller jusqu'à 3.0Go/s, supporte RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ, AHCI et "Hot-Plug" (Connexion à chaud) (voir **ATTENTION 9**)
	- 1 x ATA133 IDE connecteurs (prend en charge jusqu'à 2 périphériques IDE)
	- 1 x Port Disquette
	- 1 x En-tête de port COM
	- 1 x embase de port d'impression
	- Connecteur pour ventilateur de CPU/Châssis
	- br. 24 connecteur d'alimentation ATX
	- br. 4 connecteur d'alimentation 12V ATX
	- Connecteurs audio internes
	- Connecteur audio panneau avant
	- 2 x En-tête USB 2.0 (prendre en charge 4 ports USB 2.0 supplémentaires) (voir **ATTENTION 10**)
BIOS	- 4Mb BIOS AMI
	- BIOS AMI
	- Support du "Plug and Play"
	- Compatible pour événements de réveil ACPI 1.1
	- Gestion jumperless
	- Support SMBIOS 2.3.1
	- Prise en charge du Smart BIOS
CD d'assistance	- Pilotes, utilitaires, logiciel anti-virus (Version d'essai)
Caractéristique unique	- Tuner ASRock OC (voir **ATTENTION 11**)
	- Économiseur d'énergie intelligent (voir **ATTENTION 12**)
	- L'accélérateur hybride:
	- Contrôle direct de la fréquence CPU (voir **ATTENTION 13**)
	- ASRock U-COP (voir **ATTENTION 14**)
	- Garde d'échec au démarrage (B.F.G.)
	- ASRock AM2 Boost: Technologie brevetée par ASRock pour augmenter les performances mémoire jusqu'à 12,5% (voir **ATTENTION 15**)
Surveillance système	- Détection de la température de l'UC
	- Mesure de température de la carte mère

ASRock N68PV-GS Motherboard

	- Tachéomètre ventilateur CPU
	- Tachéomètre ventilateur châssis
	- Ventilateur silencieux d'unité centrale
	- Monitoring de la tension: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 2000 / XP / XP Media Center / XP 64-bit / Vista™ / Vista™ 64-bit
Certifications	- FCC, CE

* Pour de plus amples informations sur les produits, s'il vous plaît visitez notre site web: http://www.asrock.com

ATTENTION

Il est important que vous réalisiez qu'il y a un certain risque à effectuer l'overclocking, y compris ajuster les réglages du BIOS, appliquer la technologie Untied Overclocking, ou utiliser des outils de tiers pour l'overclocking. L'overclocking peut affecter la stabilité de votre système, ou même causer des dommages aux composants et dispositifs de votre système. Si vous le faites, c'est à vos frais et vos propres risques. Nous ne sommes pas responsables des dommages possibles causés par l'overclocking.

ATTENTION!

1. Cette carte mère prend en charge les CPU jusqu'à 95W. Veuillez vous référer à notre site Web pour la liste des CPU pris en charge. Site Web ASRock http://www.asrock.com

2. Cette carte mère prend en charge la technologie Untied Overclocking. Veuillez lire "La technologie de surcadençage à la volée" à la page 22 pour plus d'informations.

3. Cette carte mère supporte la Technologie de Mémoire à Canal Double. Avant d'intégrer la Technologie de Mémoire à Canal Double, assurez-vous de bien lire le guide d'installation des modules mémoire en page 13 pour réaliser une installation correcte.

4. La prise en charge de fréquences de mémoire de 1066MHz dépend du CPU AM2+ que vous choisissez. Si vous choisissez des barrettes de mémoire DDR2 1066 sur cette carte mère, veuillez vous référer à la liste des mémoires prises en charge sur notre site Web pour connaître barrettes de mémoire compatibles. Site Web ASRock http://www.asrock.com

5. Du fait des limites du système d'exploitation, la taille mémoire réelle réservée au système pourra être inférieure à 4 Go sous Windows® XP et Windows® Vista™. Avec Windows® XP 64 bits et Windows® Vista™ 64 bits avec CPU 64 bits, il n'y a pas ce genre de limitation.

6. La dimension maximum du memoire partage est definie par le vendeur de jeu de puces et est sujet de changer. Veuillez verifier la NVIDIA® website pour les informations recentes SVP.

7. Le support du lecteur HD-DVD/1080p Blu-ray(BD) sur la carte mere demande la configuration propre du materiel. Veilliez consulter la page 9 et 10 pour la demande du materiel minimum et les films passes HD-DVD/1080p Blu-ray (BD) dans notre lab de test.

Français

8. Ce port DVI-D avec le chipset adopte sur cette carte mere peut sup-
    porter le signal de formatage de DVI/HDCP et HDMI. Vous pouvez utiliser
    l'adaptateur DVI a HDMI pour converer le port de DVI-D sur l'interface de
    HDMI. L'adaptateur DVI a HDMI n'est pas attaché avec notre produit,
    veilliez consulter le vendeur d'adaptateur pour information future.

9. Avvant d'installer le disque dur SATAII au connecteur SATAII, veuillez lire
    le Guide « Installation du disque dur SATAII » à la page 27 du « Manuel
    de l'utilisateur » qui se trouve sur le CD de support pour régler votre
    lecteur de disque dur SATAII au mode SATAII. Vous pouvez aussi
    directement connecter le disque dur SATA au connecteur SATAII.

10. La gestion de l'alimentation pour l'USB 2.0 fonctionne bien sous
    Microsoft® Windows® Vista™ 64-bit/ Vista™ / XP 64-bit / XP SP1; SP2/
    2000 SP4.

12. Il s'agit d'un usage facile ASRock overclocking outil qui vous permet de
    surveiller votre système en fonction de la monitrice de matériel et
    overclocker vos périphériques de matériels pour obtenir les meilleures
    performances du système sous environnement Windows®. S'il vous
    plaît visitez notre site web pour le fonctionnement des procédures de
    Tuner ASRock OC. ASRock website: http://www.asrock.com

12. Avec une conception matérielle et logicielle propriétaire avancée, Intel-
    ligent Energy Saver (L'économiseur d'énergie intelligent) est une
    technologie révolutionnaire qui apporte des économies d'énergie sans
    précédent. Le régulateur de tension permet de réduire le nombre de
    phases de sortie pour améliorer le rendement lorsque les noyaux du
    CPU sont en veille. En d'autre termes, il peut amener des économies
    d'énergie exceptionnelles et améliorer le rendement énergétique sans
    sacrifier aux performances de calcul. Pour utiliser la fonction Intelligent
    Energy Saver (L'économiseur d'énergie intelligent), veuillez activer
    l'option Cool 'n' Quiet dans l'outil de configuration du BIOS par avance.
    Veuillez visiter notre site Web pour connaître les procédures d'utilisation
    de l' Intelligent Energy Saver (L'économiseur d'énergie intelligent).
    Site Web d'ASRock: http://www.asrock.com

13. Même si cette carte mère offre un contrôle sans souci, il n'est pas
    recommandé d'y appliquer un over clocking. Les fréquences autres
    que les fréquences de bus d'UC recommandées risquent de
    déstabiliser le système ou d'endommager l'UC.

14. Lorsqu'une surchauffe du CPU est détectée, le système s'arrête
    automatiquement. Avant de redémarrer le système, veuillez vérifier que
    le ventilateur d'UC sur la carte mère fonctionne correctement et
    débranchez le cordon d'alimentation, puis rebranchez-le. Pour améliorer
    la dissipation de la chaleur, n'oubliez pas de mettre de la pâte thermique
    entre le CPU le dissipateur lors de l'installation du PC.

15. Cette carte mère prend en charge la technologie d'overbooking ASRock
    AM2 Boost. Si vous activez cette fonction dans la configuration du BIOS,
    les performances de la mémoire d'améliorent jusqu'à 12,5%, lais l'effet
    dépend du CPU AM2 que vous adoptez. L'activation de cette fonction
    accélère l'horloge de référence du chipset/CPU. Cependant, nous ne

pouvons par garantir la stabilité du système pour toutes les configurations CPU/DRAM. Si votre systèmes devient instable une fois la fonction AM2 Boost activée, il est possible qu'elle ne s'applique pas à votre système. Vous pouvez choisir de désactiver cette fonction pour conserver la stabilité de votre système.

1.3 Réglage des cavaliers

L'illustration explique le réglage des cavaliers. Quand un capuchon est placé sur les broches, le cavalier est « FERME ». Si aucun capuchon ne relie les broches, le cavalier est « OUVERT ». L'illustration montre un cavalier à 3 broches dont les broches 1 et 2 sont « FERMEES » quand le capuchon est placé sur ces 2 broches.

Ferme   Ouvert
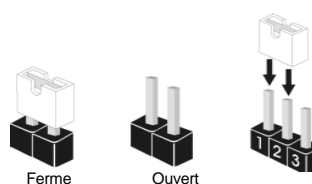
Le cavalier			Description
PS2_USB_PW1 (voir p.2 fig. 1)	1_2 +5V	2_3 +5VSB	Court-circuitez les broches 2 et 3 pour choisir +5VSB (standby) et permettre aux périphériques PS/2 ou USB de réveiller le système.

Note: Pour sélectionner +5VSB, il faut obligatoirement 2 Amp et un courant standby supérieur fourni par l'alimentation.

Effacer la CMOS (CLRCMOS1) (voir p.2 fig. 14)	1_2 Paramètres par défaut	2_3 Effacer la CMOS

Note: CLRCMOS1 vous permet d'effacer les données qui se trouvent dans la CMOS. Les données dans la CMOS comprennent les informations de configuration du système telles que le mot de passe système, la date, l'heure et les paramètres de configuration du système. Pour effacer et réinitialiser les paramètres du système pour retrouver la configuration par défaut, veuillez mettre l'ordinateur hors tension et débrancher le cordon d'alimentation de l'alimentation électrique. Attendez 15 secondes, puis utilisez un capuchon de cavalier pour court-circuiter la broche 2 et la broche 3 sur CLRCMOS1 pendant 5 secondes. Après avoir court-circuité le cavalier Effacer la CMOS, veuillez enlever le capuchon de cavalier. Toutefois, veuillez ne pas effacer la CMOS tout de suite après avoir mis le BIOS à jour. Si vous avez besoin d'effacer la CMOS lorsque vous avez fini de mettre le BIOS à jour, vous devez d'abord initialiser le système, puis le mettre hors tension avant de procéder à l'opération d'effacement de la CMOS.

Français

1.4 Connecteurs

Les connecteurs NE SONT PAS des cavaliers. NE PLACEZ AUCUN capuchon sur ces connecteurs. Poser les bouchons pour cavaliers audessus des connecteurs provoquera des dommages irrémédiables à la carte mère!

Les connecteurs	Description

Connecteur du lecteur de disquette
(FLOPPY1 br. 33)
(voir p.2 fig. 19)

PIN1 FLOPPY1

le côté avec fil rouge côté Broche1

Note: Assurez-vous que le côté avec fil rouge du câble est bien branché sur le côté Broche1 du connecteur.

Connecteur IDE primaire (bleu)
(IDE1 br. 39, voir p.2 No. 7)

PIN1 IDE1

connecteur bleu
vers la carte mère

connecteur noir
vers le disque dur

Câble ATA 66/100/133 80 conducteurs

Note: Veuillez vous reporter aux instructions du fabricant de votre IDE périphérique pour les détails.

Connecteurs Série ATAII
(SATAII_1 (PORT 0):
 voir p.2 fig. 6)
(SATAII_2 (PORT 1):
 voir p.2 fig. 5)
(SATAII_3 (PORT 2):
 voir p.2 fig. 9)
(SATAII_4 (PORT 3):
 voir p.2 fig. 8)

SATAII_1 (PORT 0)
SATAII_2 (PORT 1)
SATAII_3 (PORT 2)
SATAII_4 (PORT 3)

Ces quatre connecteurs Serial ATA (SATAII) prennent en charge les disques durs SATA ou SATAII pour les dispositifs de stockage interne. L'interface SATAII actuelle permet des taux transferts de données pouvant aller jusqu'à 3,0 Go/s.
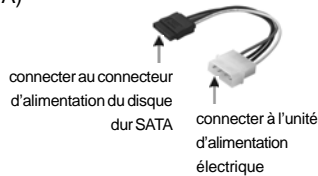
Câble de données Série ATA (SATA)
(en option)

L'une des deux extrémités du câble de données SATA peut être connectée au disque dur SATA / SATAIIou au connecteur SATAII sur la carte mère.

Français

Cordon d'alimentation
Série ATA (SATA)

(en option)

connecter au connecteur
d'alimentation du disque
dur SATA   connecter à l'unité
d'alimentation
électrique

Veuillez connecter l'extrémité
noire du cordon d'alimentation
SATA sur le connecteur
d'alimentation de l'unité.
Connectez ensuite l'extrémité
blanche du cordon d'alimentation
SATA sur le connecteur
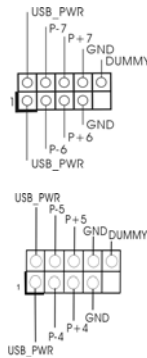d'alimentation de l'unité
d'alimentation électrique.

En-tête USB 2.0
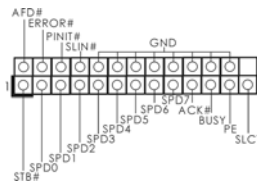
(USB6_7 br.9)

(voir p.2 No. 16)

(USB4_5 br.9)

(voir p.2 No. 12)

USB_PWR
P-7
P+7
GND
DUMMY
GND
P+6
P-6
USB_PWR

USB_PWR
P-5
P+5
GND DUMMY
GND
P+4
P-4
USB_PWR

A côté des quatre ports USB
2.0 par défaut sur le panneau
E/S, il y a deux embases USB
2.0 sur cette carte mère.
Chaque embase USB 2.0 peut
prendre en charge 2 ports USB
2.0.

Embase de port d'impression

(LPT1 25 broches)

(voir p.2 No. 28)

AFD#
ERROR#
PINIT#
SLIN#
GND
SPD7I
SPD6 ACK#
SPD5 BUSY
SPD4 PE
SPD3 SLCT
SPD2
SPD1
SPD0
STB#

All s'agit d'une interface pour le
câble du port d'impression, qui
permet le raccordement
pratique de périphériques
d'impression.

Connecteurs audio internes

(CD1 br. 4)

(CD1: voir p.2 fig. 21)
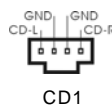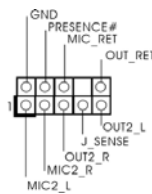
GND   GND
CD-L   CD-R

CD1

Ils vous permettent de gérer des
entrées audio à partir de sources
stéréo comme un CD-ROM,
DVD-ROM, un tuner TV ou une
carte MPEG.

Connecteurs audio internes

(CD1 br. 4)

(CD1: voir p.2 fig. 20)

GND
PRESENCE#
MIC_RET
OUT_RE1
OUT2_L
J_SENSE
OUT2_R
MIC2_R
MIC2_L

Ils vous permettent de gérer des
entrées audio à partir de sources
stéréo comme un CD-ROM,
DVD-ROM, un tuner TV ou une
carte MPEG.

Français

41

ASRock *N68PV-GS* Motherboard

1. L'audio à haute définition (HDA) prend en charge la détection de fiche, mais le fil de panneau sur le châssis doit prendre en charge le HDA pour fonctionner correctement. Veuillez suivre les instructions dans notre manuel et le manuel de châssis afin installer votre système.

2. Si vous utilisez le panneau audio AC'97, installez-le sur l'adaptateur audio du panneau avant conformément à la procédure ci-dessous :

A. Connectez Mic_IN (MIC) à MIC2_L.

B. Connectez Audio_R (RIN) à OUT2_R et Audio_L (LIN) à OUT2_L.

C. Connectez Ground (GND) à Ground (GND).

D. MIC_RET et OUT_RET sont réservés au panneau audio HD. Vous n'avez pas besoin de les connecter pour le panneau audio AC'97.

E. Entrer dans l'utilitaire de configuration du BIOS. Saisir les Paramètres avancés puis sélectionner Configuration du jeu de puces. Définir l'option panneau de commande de [Auto] à [Activé].

F. Entrer dans le système Windows. Cliquer sur l'icône sur la barre de tâches dans le coin inférieur droite pour entrer dans le Gestionnaire audio Realtek HD.

Pour Windows® 2000 / XP / XP 64-bit OS:

Cliquer sur « E/S audio», sélectionner « Paramètres du connecteur »

, choisir « Désactiver la détection de la prise du panneau de commande » et sauvegarder les changements en cliquant sur « OK ».

Pour Windows® Vista™ / Vista™ 64-bit OS:

Cliquer droit "Fichier" icone   , selectionner" la detection

incapable de jack de panel   et sauvegarder le changement par cliquer"ok".

G. Pour activer le mic.

Pour les SE Windows® 2000 / XP / XP 64 bits :

Veuillez sélectionner "Front Mic" (Mic. Avant) comme le dispositif d'enregistrement par défaut.

Si vous voulez entendre votre voix à travers le mic. avant veuillez désactiver l'icône «Silence» dans "Front Mic" (Mic. Avant) de la portion "Playback" (Lecture).

Pour les SE Windows® Vista™ / Vista™ 64 bits :

Allez à l'onglet «Front Mic» (Mic. Avant) dans le panneau de commandes Realtek.

Cliquez sur «Configurer le dispositif par défaut» pour faire du Mic Avant le dispositif d'enregistrement par défaut.
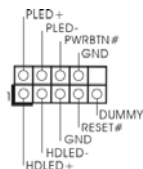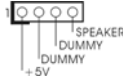
Ce connecteur offre plusieurs fonctions système en façade.

PLED+
PLED-
PWRBTN#
GND
DUMMY
RESET#
GND
HDLED-
HDLED+

Français

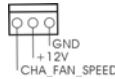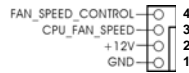|		
Connecteur du haut-parleur du châssis (SPEAKER1 br. 4) (voir p.2 fig. 15)	SPEAKER DUMMY DUMMY + 5V	Veuillez connecter le haut-parleur de châssis sur ce connecteur.
Connecteur pour ventilateur de châssis (CHA_FAN1 br. 3) (voir p.2 fig. 13)	GND +12V CHA_FAN_SPEED	Veuillez connecter le câble du ventilateur du châssis sur ce connecteur en branchant le fil noir sur la broche de terre.
Connecteur pour ventilateur CPU (CPU_FAN1 br. 4) (voir p.2 fig. 2)	FAN_SPEED_CONTROL — 4 CPU_FAN_SPEED — 3 +12V — 2 GND — 1	Veuillez connecter un câble de ventilateur d'UC sur ce connecteur et brancher le fil noir sur la broche de terre.

ien que cette carte mère offre un support de (Ventilateur silencieux) ventilateur de CPU à 4 broches , le ventilateur de CPU à 3 broches peut bien fonctionner même sans la fonction de commande de vitesse du ventilateur. Si vous prévoyez de connecter le ventilateur de CPU à 3 broches au connecteur du ventilateur de CPU sur cette carte mère, veuillez le connecter aux broches 1-3. **Installation de ventilateur à 3 broches** ◄
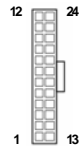
Broches 1-3 connectées

Connecteur d'alimentation ATX (ATXPWR1 br. 24) (voir p.2 fig. 4)	12 24 1 13	Veuillez connecter une unité d'alimentation ATX sur ce connecteur.

Bien que cette carte mère fournisse un connecteur de courant ATX 24 broches, elle peut encore fonctionner si vous adopter une alimentation traditionnelle ATX 20 broches. Pour utiliser une alimentation ATX 20 broches, branchez à l'alimentation électrique ainsi qu'aux broches 1 et 13.

12 24

20-Installation de l'alimentation électrique ATX   1 13

Connecteur d'alimentation
12V ATX
(ATX12V1 br. 4)
(voir p.2 fig. 25)

Veuillez noter qu'il est nécessaire de connecter une unité d'alimentation électrique avec prise ATX 12V sur ce connecteur afin d'avoir une alimentation suffisante. Faute de quoi, il ne sera pas possible de mettre sous tension.

En-tête de port COM
(COM1 br.9)
(voir p.2 No. 18)

RRXD1
DDTR#1
DDSR#1
CCTS#1
1
RRI#1
RRTS#1
GND
TTXD1
DDCD#1
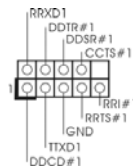
Cette en-tête de port COM est utilisée pour prendre en charge un module de port COM.

2. Informations sur le BIOS

La puce Flash Memory sur la carte mère stocke le Setup du BIOS. Lorsque vous démarrez l'ordinateur, veuillez presser <F2> pendant le POST (Power-On-Self-Test) pour entrer dans le BIOS; sinon, le POST continue ses tests de routine. Si vous désirez entrer dans le BIOS après le POST, veuillez redémarrer le système en pressant <Ctl> + <Alt> + <Suppr>, ou en pressant le bouton de reset sur le boîtier du système. Vous pouvez également redémarrer en éteignant le système et en le rallumant. L'utilitaire d'installation du BIOS est conçu pour être convivial. C'est un programme piloté par menu, qui vous permet de faire défiler par ses divers sous-menus et de choisir parmi les choix prédéterminés. Pour des informations détaillées sur le BIOS, veuillez consulter le Guide de l'utilisateur (fichier PDF) dans le CD technique.

3. Informations sur le CD de support

Cette carte mère supporte divers systèmes d'exploitation Microsoft® Windows®: 2000 / XP / XP Media Center / XP 64-bit / Vista™ / Vista™ 64 bits. Le CD technique livré avec cette carte mère contient les pilotes et les utilitaires nécessaires pour améliorer les fonctions de la carte mère. Pour utiliser le CD technique, insérez-le dans le lecteur de CD-ROM. Le Menu principal s'affiche automatiquement si "AUTORUN" est activé dans votre ordinateur. Si le Menu principal n'apparaît pas automatiquement, localisez dans le CD technique le fichier "ASSETUP.EXE" dans le dossier BIN et double-cliquez dessus pour afficher les menus.

Français

1. Introduzione

Grazie per aver scelto una scheda madre ASRock **N68PV-GS**, una scheda madre affidabile prodotta secondo i severi criteri di qualità ASRock. Le prestazioni eccellenti e il design robusto si conformano all'impegno di ASRock nella ricerca della qualità e della resistenza. Questa Guida Rapida all'Installazione contiene l'introduzione alla motherboard e la guida passo-passo all'installazione. Informazioni più dettagliate sulla motherboard si possono trovare nel manuale per l'utente presente nel CD di supporto.

Le specifiche della scheda madre e il software del BIOS possono essere aggiornati, pertanto il contenuto di questo manuale può subire variazioni senza preavviso. Nel caso in cui questo manuale sia modificato, la versione aggiornata sarà disponibile sul sito di ASRock senza altro avviso. Sul sito ASRock si possono anche trovare le più recenti schede VGA e gli elenchi di CPU supportate.
ASRock website   http://www.asrock.com
Se si necessita dell'assistenza tecnica per questa scheda madre, visitare il nostro sito per informazioni specifiche sul modello che si sta usando.
www.asrock.com/support/index.asp

1.1 Contenuto della confezione

Scheda madre ASRock **N68PV-GS**
   (Micro ATX Form Factor: 9.6-in x 7.2-in, 24.4 cm x 18.3 cm)
Guida di installazione rapida ASRock **N68PV-GS**
CD di supporto ASRock **N68PV-GS**
Un cavo IDE 80-pin Ultra ATA 66/100/133 (Opzionale)
Un cavo dati Serial ATA (SATA) (Opzionale)
Un cavo alimentatore HDD Serial ATA (SATA) (Opzionale)
Un I/O Shield

Italiano

1.2 Specifiche

Piattaforma	- Micro ATX Form Factor: 9.6-in x 7.2-in, 24.4 cm x 18.3 cm
Processore	- Supporto per processori Socket AM2+ / AM2: AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core / Athlon X2 Dual-Core / Athlon 64 / processore Sempron (vedi **ATTENZIONE 1**) - Supporto tecnologia AMD Cool 'n' Quiet™ - FSB 1000 MHz (2.0 GT/s) - Supporta la tecnologia overclocking "slegata" (vedi **ATTENZIONE 2**) - Supporta la tecnologia Hyper-Transport
Chipset	- NVIDIA® GeForce 7050 / nForce 630A MCP
Memoria	- Supporto tecnologia Dual Channel Memory (vedi **ATTENZIONE 3**) - 2 x slot DDR2 DIMM - Supporto DDR2 1066/800/667/533 non-ECC, momoria senza buffer (vedi **ATTENZIONE 4**) - Capacità massima della memoria di sistema: 4GB (vedi **ATTENZIONE 5**)
Slot di espansione	- 1 x slot PCI Express x16 - 1 x slot PCI Express x1 - 2 x slot PCI
VGA su scheda	- Scheda Serie NVIDIA® GeForce7 (NV44) - VGA DX9.0, Pixel Shader 3.0 - Memoria massima condivisa 256MB (vedi **ATTENZIONE 6**) - Uscita VGA Doppia: supporto porte DVI-D e D-Sub tramite verificatore display indipendente - Supporto per funzione HDCP con porta DVI-D port - Supporto 1080p Blu-ray (BD) / HD-DVD riproduzione (vedi **ATTENZIONE 7**) - NVIDIA® PureVideo™ Ready
Audio	- 5.1 Audio HD CH Windows® Vista™ Premium Level (ALC662 Audio Codec) - Chipset HDMI Audio incorporato
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211CL - Supporta Wake-On-LAN
Pannello posteriore I/O	I/O Panel - 1 x Porta PS/2 per mouse - 1 x Porta PS/2 per tastiera - 1 x Porta VGA/D-Sub

ASRock *N68PV-GS* Motherboard

	- 1 x Porta VGA/DVI-D (vedi **ATTENZIONE 8**)
	- 4 x Porte USB 2.0 già integrate
	- 1 x porta LAN RJ-45 con LED (LED azione/collegamento e LED velocità)
	- Connettore HD Audio: ingresso linea / cassa frontale / microfono
Connettori	- 4 x connettori SATAII 3.0Go/s, supporta RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ, AHCI e "Collegamento a caldo" (vedi **ATTENZIONE 9**)
	- 1 x connettori ATA133 IDE (supporta fino a 2 dispositivi IDE)
	- 1 x porta Floppy
	- 1 x collettore porta COM
	- 1 x Collettore porta stampante
	- Connettore ventolina CPU/telaio
	- 24-pin collettore alimentazione ATX
	- 4-pin connettore ATX 12V
	- Connettori audio interni
	- Connettore audio sul pannello frontale
	- 2 x Collettore USB 2.0 (supporta 4 porte USB 2.0) (vedi **ATTENZIONE 10**)
BIOS	- 4Mb AMI BIOS
	- Suppor AMI legal BIOS
	- Supporta "Plug and Play"
	- Compatibile con ACPI 1.1 wake up events
	- Supporta jumperfree
	- Supporta SMBIOS 2.3.1
	- Smart BIOS supportato
CD di supporto	- Driver, utilità, software antivirus (Versione dimostrativa)
Caratteristica speciale	- Sintonizzatore ASRock OC (vedi **ATTENZIONE 11**)
	- Intelligent Energy Saver (Risparmio intelligente dell'energia) (vedi **ATTENZIONE 12**)
	- Booster ibrido:
	- Stepless control per frequenza del processore (vedi **ATTENZIONE 13**)
	- ASRock U-COP (vedi **ATTENZIONE 14**)
	- Boot Failure Guard (B.F.G.)
	- ASRock AM2 Boost: Tecnologia brevettata ASRock per migliorare le prestazioni della memoria fino al 12,5% (vedi **ATTENZIONE 15**)
Monitor-aggio Hardware	- Sensore per la temperatura del processore
	- Sensore temperatura scheda madre
	- Indicatore di velocità per la ventola del processore
	- Indicatore di velocità per la ventola di raffreddamento

Italiano

	- Ventola CPU silenziosa
	- Voltaggio: +12V, +5V, +3.3V, Vcore
Compatibi-lità SO	- Microsoft® Windows® 2000 / XP / Centro multimediale XP / XP 64 bit / Vista™ / Vista™ 64 bit
Certificazioni	- FCC, CE

* Per ulteriori informazioni, prego visitare il nostro sito internet: http://www.asrock.com

AVVISO

Si prega di prendere atto che la procedura di overclocking implica dei rischi, come anche la regolazione delle impostazioni del BIOS, l'applicazione della tecnologia Untied Overclocking Technology, oppure l'uso di strumenti di overclocking forniti da terzi. L'overclocking può influenzare la stabilità del sistema, ed anche provocare danni ai componenti ed alle periferiche del sistema. La procedura è eseguita a proprio rischio ed a proprie spese. Noi non possiamo essere ritenuti responsabili per possibili danni provocati dall'overclocking.

ATTENZIONE!

1. Questa scheda madre supporta CPU fino a 95W. Visitate il nostro sito Internet per avere l'elenco delle CPU supportate.
   Sito web ASRock http://www.asrock.com

2. Questa scheda madre supporta la tecnologia overclocking "slegata". Per i dettagli leggere "Tecnologia di Untied Overclocking" a pagina 22.

3. Questa scheda madre supporta la tecnologia Dual Channel Memory. Prima di implementare la tecnologia Dual Channel Memory, assicurarsi di leggere la guida all'installazione dei moduli di memoria, a pagina 13, per seguire un'installazione appropriata.

4. Il fatto che la velocità della memoria da 1066MHz sia supportata o meno, dipende dagli AM2+ CPU utilizzati. Se si desidera adottare il modulo di memoria DDR2 1066 su questa scheda madre, fare riferimento all'elenco delle memorie supportate nel nostro sito web per scoprire quali sono i moduli compatibili.
   Sito web ASRock http://www.asrock.com

5. A causa delle limitazioni del sistema operativo, le dimensioni effettive della memoria possono essere inferiori a 4GB per l'accantonamento riservato all'uso del sistema sotto Windows® XP e Windows® Vista™. Per Windows® XP 64-bit e Windows® Vista™ 64-bit con CPU 64-bit, non c'è tale limitazione.

6. La dimensione massima della memoria condivisa viene stabilita dal venditore del chipset e e' soggetta a modificazioni. Prego fare riferimento al sito internet NVIDIA® per le ultime informazioni.

7. Il supporto per riproduzione 1080p Blu-ray (BD) / HD-DVD sulla scheda madre richiede una corretta configurazione hardware. Prego fare riferimento alla pagina 9 ed 10 per i requisiti minimi hardware e per il test 1080p Blu-ray (BD) / HD-DVD del nostro laboratorio.

8. Questa porta DVI-D per chip set usata sulla scheda madre puo' supportare segnali in formato DVI/HDCP e HDMI. E' possibile usare l'adattatore DVI per HDMI per convertire queta porta DVI-D per l'interfaccia HDMI. L'adattatore DVI su HDMI non e' allegato al nostro prodotto, prego fare riferimento al venditore dell'unita' per ulteriori informazioni.

9. Prima di installare il disco rigido SATAII con il connettore SATAII, leggere la "Guida per la configurazione del disco rigido SATAII" a pagina 27 del "Manuale utente" nel CD in dotazione in modo da poter predisporre il disco rigido SATAII per la modalità SATAII. È anche possibile connettere il disco rigido SATA direttamente al connettore SATAII.

10. La Gestione Risorse per USB 2.0 funziona perfettamente con Microsoft® Windows® Vista™ 64-bit / Vista™ / XP 64 bit / XP SP1; SP2/ 2000 SP4.

11. Si tratta di uno strumento di sicronizzazione ASRock di face uso in grado di implementare il controllo del sistema tramite la funzione di hardware monitor e sincronizzare le Vostre unita' hardware per ottenere la migliore prestazione in Windows®. Prego visitare il nostro sito Internet per ulteriori dettagli circa l'uso del Sintonizzatore ASRock OC. ASRock website: http://www.asrock.com

12. Grazie ad un innovative hardware proprietario ed alla progettazione specifica del software, Intelligent Energy Saver (Risparmio intelligente dell'energia), è una tecnologia rivoluzionaria che consente di realizzare risparmi energetici senza pari. Il regolatore di tensione è in grado di ridurre il numero di fasi in uscita in modo da migliorare l'efficienza quando i nuclei della CPU sono inattivi. In alter parole, permette di realizzare risparmi energetica senza pari e di migliorare l'efficienza energetica senza ridurre le prestazioni del computer. Per usare la funzione Intelligent Energy Saver (Risparmio intelligente dell'energia), attivare l'opzione Cool 'n' Quiet nella configurazione avanzata del BIOS. Si prega di visitare il nostro sito Internet per le procedure di funzionamento dell'Intelligent Energy Saver (Risparmio intelligente dell'energia).
Sito Internet di ASRock: http://www.asrock.com

13. Anche se questa motherboard offre il controllo stepless, non si consiglia di effettuare l'overclocking. L'uso di frequenze diverse da quelle raccomandate per il bus CPU possono provocare l'instabilità del sistema o danneggiare la CPU.

14. Se il processore si surriscalda, il sistema si chiude automaticamente. Prima di riavviare il sistema, assicurarsi che la ventolina CPU della scheda madre funzioni correttamente; scollegare e ricollegare il cavo d'alimentazione. Per migliorare la dissipazione del calore, ricordare di applicare l'apposita pasta siliconica tra il processore e il dissipatore quando si installa il sistema.

15. Questa scheda madre supporta la tecnologia di overclocking ASRock AM2 Boost. Se si abilita questa funzione nel Setup del BIOS, le prestazioni della memoria miglioreranno fino al 12,5%, per gli effetti dipendono sempre dalla CPU AM2 che si adotta. Abilitare questa funzione provocherà l'overclock della frequenza di case del chipset/ CPU. Tuttavia, non possiamo garantire la stabilità del sistema per tutte le configurazioni CPU/DRAM. Se il sistema è instabile dopo avere abilitato la funzione AM2 Boost, significa che la funzione non è adatta al sistema. Si può scegliere di disabilitare la funzione per mantenere la stabilità del sistema.

49

ASRock *N68PV-GS* Motherboard

1.3 Setup dei Jumpers

L'illustrazione mostra come sono settati i jumper.
Quando il ponticello è posizionato sui pin, il jumper
è "CORTOCIRCUITATO". Se sui pin non ci sono
ponticelli, il jumper è "APERTO". L'illustrazione
mostra un jumper a 3 pin in cui il pin1 e il pin2 sono
"CORTOCIRCUITATI" quando il ponticello è
posizionato su questi pin.

CORTOCIRCUITATO   APERTO
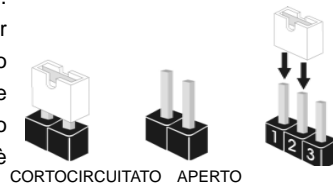
Jumper	Settaggio del Jumper	
PS2_USB_PW1 (vedi p.2 item 1)	1_2 +5V 2_3 +5VSB	Cortocircuitare pin2, pin3 per settare a +5VSB (standby) e abilitare PS/2 o USB wake up events.

Nota: Per selezionare +5VSB, si richiedono almeno 2 Ampere e il consumo di corrente in standby sarà maggiore.

Resettare la CMOS (CLRCMOS1) (vedi p.2 item 14)	1_2 Impostazione predefinita	2_3 Azzeramento CMOS

Nota: CLRCMOS1 permette di cancellare i dati presenti nel CMOS. I dati del CMOS comprendono le informazioni di configurazione quali la password di sistema, data, ora, e i parametri di configurazione del sistema. Per cancellare e ripristinare i parametri del sistema, spegnere il computer e togliere il cavo di alimentazione dalla presa di corrente. Dopo aver lasciato trascorrere 15 secondi, utilizzare un cappuccio jumper per cortocircuitare i pin 2 e 3 su CLRCMOS1 per 5 secondi. Dopo aver cortocircuitato il jumper Clear CMOS jumper, togliere il terminatore jumper. Non cancellare la CMOS subito dopo aver aggiornato il BIOS. Se è necessario cancellare la CMOS una volta completato l'aggiornamento del BIOS, è necessario riavviare prima il sistema, e poi spegnerlo prima di procedere alla cancellazione della CMOS.

Italiano

1.4 Connettori

I connettori NON sono jumpers. NON COLLOCARE i ponticelli sui connettori. Installando dei cappucci a ponticello sui connettori si causeranno danni permanenti alla scheda madre!

Connettori   **Descrizione dei connettori**

Connettore del
Floppy disk
(33-pin FLOPPY1)
(vedi p.2 item 19)   PIN1 FLOPPY1

Lato del Pin1 con la striscia rossa

Nota: Assicurarsi che il lato del cavo con la striscia rossa sia inserito nel lato Pin1 del connettore.

Connettore IDE primario (blu)

(39-pin IDE1, vedi p.2 Nr. 7)

PIN1   IDE1

Connettore blu   Connettore nero
alla schedamadre   all'hard disk drive

Cavo ATA 66/100/133 a 80 Pin

Nota: Fate riferimento alle istruzioni del produttore del dispositivo IDE per maggiori dettagli.

Connettori Serial ATAII   Questi quattro connettori Serial
(SATAII_1 (PORT 0):   ATA (SATAII) supportano le
vedi p.2 Nr. 6)   SATAII_1 (PORT 0)   periferiche di archiviazione
(SATAII_2 (PORT 1):   HD SATA o SATAII per le
vedi p.2 Nr. 5)   SATAII_2 (PORT 1)   funzioni di archiviazione
(SATAII_3 (PORT 2):   interna. ATAII (SATAII) suppo-
vedi p.2 Nr. 9)   SATAII_3 (PORT 2)   rtano cavi SATAII per dispositivi
(SATAII_4 (PORT 3):   di memoria interni. L'interfaccia
vedi p.2 Nr. 8)   SATAII_4 (PORT 3)   SATAII attuale permette velocità
                                   di trasferimento dati fino a
                                   3.0 Gb/s.

Cavi dati Serial ATA (SATA)   Entrambe le estremità del cavo
(Opzionale)   dati SATA possono collegarsi
                                   all'hard disk SATA / SATAII o al
                                   connettore SATAII sulla scheda
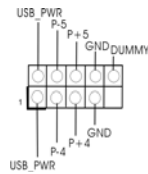   madre.

Italiano

Cavo d'alimentazione
Serial ATA (SATA)

(Opzionale)

Connettere all'ailmentazione
dei dischi SATA

Connettere al gruppo
di alimentazione

Collegare l'estremità nera de
cavo di alimentazione SATA al
connettore di alimentazione del
drive. Poi connettete l'estremità
bianca del cavo di
alimentazione SATA al
connettore power
dell'alimentatore.
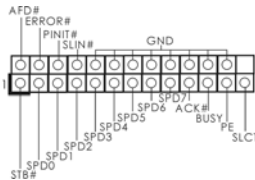
Collettore USB 2.0

(9-pin USB6_7)

(vedi p.2 No. 16)

USB_PWR
P-7
P+7
GND
DUMMY

GND
P+6
P-6
USB_PWR
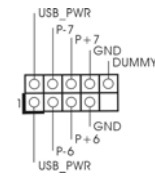
Oltre alle quattro porte USB 2.0
predefinite nel pannello I/O, la
scheda madre dispone di due
intestazioni USB 2.0. Ciascuna
intestazione USB 2.0 supporta
due porte USB 2.0.

(9-pin USB4_5)
(vedi p.2 No. 12)

USB_PWR
P-5
P+5
GND DUMMY

GND
P+4
P-4
USB_PWR

Collettore porta stampante

(LPT1 25 pin)

(vedi p.2 No. 28)

AFD#
ERROR#
PINIT#
SLIN#
GND

SPD7
SPD6 ACK#
SPD5 BUSY
SPD4 PE
SPD3 SLC1
SPD2
SPD1
SPD0
STB#

Questa è un'interfaccia per il
cavo porta stampante che
consente di collegare, con
comodità, dispositivi di stampa.

Connettori audio interni

(4-pin CD1)

(CD1: vedi p.2 item 21)

GND GND
CD-L CD-R

CD1
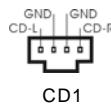
Permettono di ricevere input
stereo audio da fonti di
suono come CD-ROM, DVD -
ROM,TV tuner, o schede
MPEG.

Connettore audio sul
pannello frontale

(9-pin HD_AUDIO1)

(vedi p.2 item 20)

GND
PRESENCE#
MIC_RET
OUT_RE1

OUT2_L
J_SENSE
OUT2_R
MIC2_R
MIC2_L
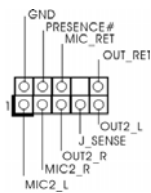
È un'interfaccia per il cavo del
pannello audio. Che consente
connessione facile e controllo
dei dispositivi audio.

Italiano

1. La caratteristica HDA (High Definition Audio) supporta il rilevamento dei connettori, però il pannello dei cavi sul telaio deve supportare la funzione HDA (High Definition Audio) per far sì che questa operi in modo corretto. Attenersi alle istruzioni del nostro manuale e del manuale del telaio per installare il sistema.

2. Se si utilizza un pannello audio AC'97, installarlo nell'intestazione audio del pannello anteriore, come indicato di seguito:

   A. Collegare Mic_IN (MIC) a MIC2_L.

   B. Collegare Audio_R (RIN) a OUT2_R e Audio_L (LIN) ad OUT2_L.

   C. Collegare Ground (GND) a Ground (GND).

   D. MIC_RET e OUT_RET sono solo per il pannello audio HD. Non è necessario collegarli per il pannello audio AC'97.

   E. Entrare nel programma di impostazione BIOS. Entrare su Impostazioni avanzate, quindi selezionare Configurazione chipset. Impostare l'opzione Comando pannello anteriore da [Auto] a [Attivato].

   F. Entrare nel sistema di Windows. Fare clic sull'icona situata nell'angolo inferiore destro della barra delle applicazioni per entrare su Realtek HD Audio Manager.

   Per Windows® 2000 / XP / XP 64-bit OS:

   Fare clic su "Audio I/O", selezionare "Impostazioni connettore"   ,

   scegliere "Disattiva rilevazione presa pannello anteriore" e salvare la modifica facendo clic su "OK".

   Per Windows® Vista™ / Vista™ 64-bit OS:

   Cliccare sull'icona in alto a destra "Folder" ("Cartella")   ,

   selezionare "Disable front panel jack detection" "Disabilitare individuazione presa pannello frontale") e cliccare "OK" per memorizzare.

   G. Per attivare il microfono anteriore.

   Per il sistema operativo Windows® 2000 / XP / XP 64-bit:

   Selezionare "Microfono anteriore" come dispositivo predefinito per la registrazione. Per ascoltare la propria voce tramite il microfono anteriore, deselezionare l'icona "Muto" in "Microfono anteriore" di "Riproduzione".

   Per il sistema operative Windows® Vista™ / Vista™ 64-bit:

   Andare alla scheda "Microfono anteriore" nel pannello di controllo d i Realtek. Fare clic su "Imposta dispositivo predefinito" per impostare il microfono anteriore come dispositivo predefinito per la registrazione.

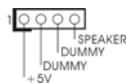Connettore del panello frontale

(9-pin PANEL1)

(vedi p.2 item 17)
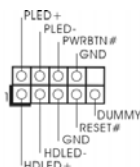
Questo connettore accoglie diverse funzioni del pannello frontale.

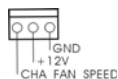| Collettore casse telaio		Collegare le casse del telaio a questo collettore.
(4-pin SPEAKER1)	SPEAKER DUMMY DUMMY +5V	
(vedi p.2 item 15)		

Connettore ventolina telaio		Collegare il cavo della ventolina telaio a questo connettore e far combaciare il filo nero al pin terra.
(3-pin CHA_FAN1)	GND +12V CHA_FAN_SPEED	
(vedi p.2 item 13)		
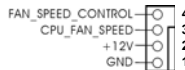
Connettore ventolina CPU		Collegare il cavo della ventolina CPU a questo connettore e far combaciare il filo nero al pin terra.
(4-pin CPU_FAN1)	FAN_SPEED_CONTROL 4 CPU_FAN_SPEED 3 +12V 2 GND 1	
(vedi p.2 item 2)		

Sebbene la presente scheda madre disponga di un supporto per ventola CPU a 4 piedini (ventola silenziosa), la ventola CPU a 3 piedini è in grado di funzionare anche senza la funzione di controllo della velocità della ventola. Se si intende collegare la ventola CPU a 3 piedini al connettore della ventola CPU su questa scheda madre, collegarla ai piedini 1-3.

Piedini 1-3 collegati ←

Installazione della ventola a 3 piedini
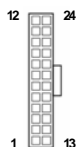
Collettore alimentazione ATX		Collegare la sorgente d'alimentazione ATX a questo collettore.
(24-pin ATXPWR1)	12 24 1 13	
(vedi p.2 item 4)		

Con questa scheda madre, c'è in dotazione un connettore elettrico ATX a 24 pin, ma può funzionare lo stesso se si adotta un alimentatore ATX a 20 pin. Per usare l'alimentatore ATX a 20 pin, collegare l'alimentatore con il Pin 1 e il Pin 13.
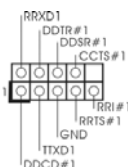
Installazione dell'alimentatore ATX a 20 pin

Connettore ATX 12V		È necessario collegare una alimentazione con spinotto da 12V ATX a questo connettore in modo che possa fornire energia sufficiente. In caso contrario l'unità non si avvia.
(4-pin ATX12V1)		
(vedi p.2 item 25)		

Collettore porta COM

(9-pin COM1)

(voir p.2 Nr. 18)

RRXD1
DDTR#1
DDSR#1
CCTS#1

RRI#1
RRTS#1
GND
TTXD1
DDCD#1

Questo collettore porta COM è utilizzato per supportare il modulo porta COM.

2. Informazioni sul BIOS

La Flash Memory sulla scheda madre contiene le Setup Utility. Quando si avvia il computer, premi <F2> durante il Power-On-Self-Test (POST) della Setup utility del BIOS; altrimenti, POST continua con i suoi test di routine. Per entrare il BIOS Setup dopo il POST, riavvia il sistema premendo <Ctl> + <Alt> + <Delete>, o premi il tasto di reset sullo chassis del sistema. El BIOS Setup Utility es diseñádo "user-friendly". Es un programa guido al menu, es decir, puede enrollarse a sus varios su-menues y elegir las opciones predeterminadas. Per informazioni più dettagliate circa il Setup del BIOS, fare riferimento al Manuale dell'Utente (PDF file) contenuto nel cd di supporto.

3. Software di supporto e informazioni su CD

Questa scheda madre supporta vari sistemi operativi Microsoft® Windows®: 2000 / XP / Centro multimediale XP / XP 64 bit / Vista™ / Vista™ 64-bit. Il CD di supporto a corredo della scheda madre contiene i driver e utilità necessari a potenziare le caratteristiche della scheda. Inserire il CD di supporto nel lettore CD-ROM. Se la funzione "AUTORUN" è attivata nel computer, apparirà automaticamente il Menù principale. Se il Menù principale non appare automaticamente, posizionarsi sul file ASSETUP.EXE nel CESTINO del CD di supporto e cliccare due volte per visualizzare i menù.

Italiano

1. Introducción

Gracias por su compra de ASRock *N68PV-GS* placa madre, una placa de confianza producida bajo el control de calidad estricto y persistente. La placa madre provee realización excelente con un diseño robusto conforme al compromiso de calidad y resistencia de ASRock.

Esta Guía rápida de instalación contiene una introducción a la placa base y una guía de instalación paso a paso. Puede encontrar una información más detallada sobre la placa base en el manual de usuario incluido en el CD de soporte.

> Porque las especificaciones de la placa madre y el software de BIOS podrían ser actualizados, el contenido de este manual puede ser cambiado sin aviso. En caso de cualquier modificación de este manual, la versión actualizada estará disponible en el website de ASRock sin previo aviso. También encontrará las listas de las últimas tarjetas VGA y CPU soportadas en la página web de ASRock.
> Website de ASRock   http://www.asrock.com
> Si necesita asistencia técnica en relación con esta placa base, visite nuestra página web con el número de modelo específico de su placa.
> www.asrock.com/support/index.asp

1.1 Contenido de la caja

Placa base ASRock *N68PV-GS*
  (Factor forma Micro ATX: 24,4 cm x 18,3 cm, 9,6" x 7,2")
Guía de instalación rápida de ASRock *N68PV-GS*
CD de soporte de ASRock *N68PV-GS*
Una cinta de datos IDE de conducción 80 Ultra ATA 66/100/133 (Opcional)
Un Cable de Datos Serial ATA (SATA) (Opcional)
Un cable serie ATA (SATA) de alimentación de disco duro (Opcional)
Una protección I/O

Español

1.2 Especificación

Plataforma	- Factor forma Micro ATX: 24,4 cm x 18,3 cm, 9,6" x 7,2"
Procesador	- Soporte para procesadores con zócalo AM2+ y AM2: AMD Phenom™ FX, Phenom, Athlon 64 FX, Athlon 64 X2 Dual-Core, Athlon X2 Dual-Core, Athlon 64 y procesador Sempron (vea **ATENCIÓN 1**)
	- Con soporte para tecnología Cool 'n' Quiet™ de AMD
	- FSB 1000 MHz (2.0 GT/s)
	- Admite tecnología de aumento de velocidad liberada (vea **ATENCIÓN 2**)
	- Soporta Tecnología de Hiper-Transporte
Chipset	- NVIDIA® GeForce 7050 / nForce 630A MCP
Memoria	- Soporte de Tecnología de Memoria de Doble Canal (ver **ATENCIÓN 3**)
	- 2 x DDR2 DIMM slots
	- Apoya DDR2 1066/800/667/533 non-ECC, memoria de un-buffered (vea **ATENCIÓN 4**)
	- Máxima capacidad de la memoria del sistema: 4GB (vea **ATENCIÓN 5**)
Ranuras de Expansión	- 1 x ranura PCI Express x16
	- 1 x ranuras PCI Express x1
	- 2 x ranuras PCI
VGA OnBoard	- Serie integrada de NVIDIA® GeForce7 (NV44)
	- VGA DX9.0, Sombreador de Píxeles 3.0
	- 256MB de Memoria máxima compartida (vea **ATENCIÓN 6**)
	- Salida de VGA dual: apoya los puertos de DVI-D y de D-Sub por los reguladores independientes de la exhibición
	- Apoya la función de HDCP con el puerto de DVI-D
	- Apoya la reproducción de Blu-rayo de 1080p (BD) / HD-DVD (vea **ATENCIÓN 7**)
	- Listo de NVIDIA® PureVideo™
Audio	- Sonido HD de Nivel Superior 5.1 Canales Windows® Vista™ (Códec de sonido ALC662)
	- Chipset encajado en HDMI Audio
LAN	- Gigabit LAN 10/100/1000 Mb/s
	- Giga PHY Realtek RTL8211CL
	- Soporta Wake-On-LAN
Entrada/Salida de Panel Trasero	I/O Panel
	- 1 x puerto de ratón PS/2
	- 1 x puerto de teclado PS/2
	- 1 x puerto VGA/D-Sub

	- 1 x puerto VGA/DVI-D (ver **ATENCIÓN 8**)
	- 4 x puertos USB 2.0 predeterminados
	- 1 x Puerto LAN RJ-45 con LED (LED de ACCIÓN/ENLACE y LED de VELOCIDAD)
	- Conexión de HD audio: Entrada de línea / Altavoz frontal / Micrófono
Conectores	- 4 x conexiones SATAII, admiten una velocidad de transferencia de datos de hasta 3,0Gb/s, soporta RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ, AHCI y "Conexión en caliente" (vea **ATENCIÓN 9**)
	- 1 x ATA133 conexiones IDE (admite hasta 2 dispositivos IDE)
	- 1 x puerto Floppy
	- 1x En-tête de port COM
	- 1 x cabecera de puerto de impresora
	- Conector del ventilador del CPU/chasis
	- 24-pin cabezal de alimentación ATX
	- 4-pin conector de ATX 12V power
	- Conector de Audio Interno
	- Conector de audio de panel frontal
	- 2 x Cabezal USB 2.0 (admite 4 puertos USB 2.0 adicionales) (vea **ATENCIÓN 10**)
BIOS	- 4Mb AMI BIOS
	- AMI legal BIOS
	- Soporta "Plug and Play"
	- ACPI 1.1 compliance wake up events
	- Soporta "jumper free setup"
	- Soporta SMBIOS 2.3.1
	- Compatible con Smart BIOS
CD de soport	- Controladores, Utilerías, Software de Anti Virus (Versión de prueba)
Característica Única	- Sintonizador de ASRock OC (vea **ATENCIÓN 11**)
	- Administrador de energía inteligente (vea **ATENCIÓN 12**)
	- Amplificador Híbrido:
	- Stepless control de frecuencia de CPU (vea **ATENCIÓN 13**)
	- ASRock U-COP (vea **ATENCIÓN 14**)
	- Protección de Falla de Inicio (B.F.G..)
	- ASRock AM2 Boost: tecnología patentada de ASRock que permite mejorar el rendimiento de la memoria hasta en un 12,5% (vea **ATENCIÓN 15**)
Monitor Hardware	- Sensibilidad a la temperatura del procesador
	- Sensibilidad a la temperatura de la placa madre

	- Taquímetros de los ventiladores del procesador y del procesador - Taquímetros de los ventiladores del procesador y del chasis - Ventilador silencioso para procesador - Monitor de Voltaje: +12V, +5V, +3.3V, Vcore
OS	- En conformidad con Microsoft® Windows® 2000 / XP / XP Media Center / XP 64 bits / Vista™ / Vista™ 64 bits
Certificaciones	- FCC, CE

* Para más información sobre los productos, por favor visite nuestro sitio web:
  http://www.asrock.com

ADVERTENCIA

Tenga en cuenta que hay un cierto riesgo implícito en las operaciones de aumento de la velocidad del reloj, incluido el ajuste del BIOS, aplicando la tecnología de aumento de velocidad liberada o utilizando las herramientas de aumento de velocidad de otros fabricantes. El aumento de la velocidad puede afectar a la estabilidad del sistema e, incluso, dañar los componentes y dispositivos del sistema. Esta operación se debe realizar bajo su propia responsabilidad y Ud. debe asumir los costos. No asumimos ninguna responsabilidad por los posibles daños causados por el aumento de la velocidad del reloj.

ATENCIÓN!

1. Esta placa base es compatible con una CPU de hasta 95W. Por favor, consulte nuestro sitio web para conocer la lista de compatibilidad de CPUs. Sitio Web de ASRock: http://www.asrock.com

2. Esta placa base admite la tecnología de aumento de velocidad liberada. Por favor lea "Tecnología de Forzado de Reloj (Overclocking) no relacionado" en la página 22 para obtener detalles.

3. Esta placa base soporta Tecnología de Memoria de Doble Canal. Antes de implementar la Tecnología de Memoria de Doble Canal, asegúrese de leer la guía de instalación de módulos de memoria en la página 13 para su correcta instalación.

4. Que la velocidad de memoria de 1066 MHz se admita o no se admita, depende de la configuración AM2+ Procesador que adopte. Si desea adoptar el módulo de memoria DDR2 1066 en esta placa base, consulte la lista de compatibilidad de memorias en nuestro sitio Web para obtener los módulos de memoria compatibles.
   Sitio Web de ASRock: http://www.asrock.com

5. Debido a las limitaciones del sistema, el tamaño real de la memoria debe ser inferior a 4GB para que el sistema pueda funcionar bajo Windows® XP y Windows® Vista™. Para equipos con Windows® XP 64-bit y Windows® Vista™ 64-bit con CPU de 64-bit, no existe dicha limitación.

6. El tamaño de la memoria compartido máximo es definido por el vendedor del chipset y está conforme al cambio. Por favor compruebe el Web site de NVIDIA® para la información más última.
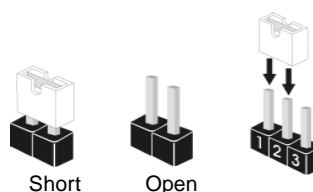
Español

7. El apoyo de la reproducción de Blu-rayo de 1080p (BD) / HD-DVD en esta placa base requiere la configuración de hardware apropiada. Por favor refieren a la página 9 y 10 para el requisito mínimo de hardware y las películas de Blu-rayo de 1080p (BD) / HD-DVD pasado en nuestra prueba del laboratorio.

8. Este puerto de DVI-D para el chipset adoptado en esta placa base puede apoyar la señal del formato de DVI/HDCP y HDMI. Pueda utilizar el DVI al adaptador de HDMI para convertir este puerto de DVI-D al interfaz de HDMI. El adaptador de DVI a HDMI no es empacado con nuestro producto, por favor refiere al vendedor del adaptador para la información adicional.

9. Antes de instalar un disco duro SATAII en el conector SATAII, consulte la sección "Guía de instalación de discos duros SATAII" en la página 27 del "Manual de usuario" que se incluye en el CD de soporte para configurar su disco duro SATAII en modo SATAII. También puede conectar un disco duro SATA directamente al conector SATAII.

10. Power Management para USB 2.0 funciona bien bajo Microsoft® Windows® Vista™ 64 bits / Vista™ / XP 64 bits / XP SP1; SP2/2000 SP4.

11. Es una herramienta de overclocking de ASRock de usuario-fácil que le permite a supervisar su sistema por la función de monitor de hardware y overclock sus dispositivos de hardware para obtener el mejor funcionamiento del sistema bajo el entorno de Windows®. Por favor visite nuestro sitio web para los procedimientos de operación de Sintonizador de ASRock OC.
Sitio web de ASRock: http://www.asrock.com

12. Gracias a su avanzado hardware de propietario y diseño de software, Intelligent Energy Saver (Economizador de energía inteligente) es una revolucionaria tecnología que ofrece un ahorro de energía sin igual. El regulador de voltaje permite reducir el número de fases de salida para mejorar la eficiencia cuando los núcleos de la CPU están inactivos. En otras palabras, permite ofrecer un ahorro excepcional de energía y mejorar la eficiencia energética sin sacrificar el rendimiento del equipo. Para utilizar la función Intelligent Energy Saver (Economizador de energía inteligente) , active la opción Cool 'n' Quiet en la configuración de BIOS. Visite nuestro sitio web para conocer los procedimientos de uso de Intelligent Energy Saver (Economizador de energía inteligente).
Sitio web de ASRock: http://www.asrock.com

13. Aunque esta placa base ofrece un control complete, no es recomendable forzar la velocidad. Las frecuencias de bus de la CPU distintas a las recomendadas pueden causar inestabilidad en el sistema o dañar la CPU.

14. Cuando la temperatura de CPU está sobre-elevada, el sistema va a apagarse automaticamente. Antes de reanudar el sistema, compruebe si el ventilador de la CPU de la placa base funciona apropiadamente y desconecte el cable de alimentación, a continuación, vuelva a conectarlo. Para mejorar la disipación de calor, acuérdese de aplicar thermal grease

entre el procesador y el disipador de calor cuando usted instala el sistema de PC.

15. Esta placa base admite la tecnología ASRock AM2 Boost para aumento de la velocidad del reloj. Si habilita esta función en la configuración del BIOS, el rendimiento de la memoria mejorará hasta en un 12,5%, pero seguirá dependiendo del procesador AM2 que adopte. Al activar esta función, la velocidad del reloj de referencia del conjunto de chips y del procesador aumentará. No obstante, no podemos garantizar la estabilidad del sistema para todas las configuraciones de procesador y memoria DRAM. Si el sistema se comporta de forma inestable después de habilitar la función AM2 Boost, es posible que dicha función no se pueda aplicar a aquél. Si lo desea, puede deshabilitar la función para mantener la estabilidad del sistema.

1.3 Setup de Jumpers

La ilustración muestra como los jumpers son configurados. Cuando haya un jumper-cap sobre los pins, se dice gue el jumper está "Short". No habiendo jumper cap sobre los pins, el jumper está "Open". La ilustración muesta un jumper de 3 pins cuyo pin 1 y pin 2 están "Short".

Short   Open

Jumper	Setting	
PS2_USB_PW1 (vea p.2, No. 1)	1_2 +5V 2_3 +5VSB	Ponga en cortocircuito pin 2, pin 3 para habilitar +5VSB (standby) para PS/2 o USB wake up events.

Atención: Para elegir +5VSB, se necesita corriente mas que 2 Amp proveida por la fuente de electricidad.

Limpiar CMOS (CLRCMOS1, jumper de 3 pins) (ver p.2, No. 14)	1_2 Valor predeterminado	2_3 Restablecimiento de la CMOS
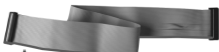
Atención: CLRCMOS1 permite que Usted limpie los datos en CMOS. Los datos en CMOS incluyen informaciones de la configuración del sistema, tales como la contraseña del sistema, fecha, tiempo, y parámetros de la configuración del sistema. Para limpiar y reconfigurar los parametros del sistema a la configuración de la fábrica, por favor apague el computador y desconecte el cable de la fuente de electricidad, utilice una cubierta de jumper para aislar las agujas pin2 y pin3 en CLRCMOS1 durante 5 segundos. Por favor acuérdase de quitar el jumper cap después de limpiar el COMS. Por favor acuérdase de quitar el jumper cap después de limpiar el COMS. Si necesita borrar la CMOS cuando acabe de finalizar la actualización de la BIOS, debe arrancar primero el sistema y, a continuación, apagarlo antes de realizar la acción de borrado de CMOS.

Español

1.4 Conectores

Los conectores no son jumpers. Por favor no ponga jumper caps sobre los conectores. El colocar cubiertas de puentes sobre los conectores provocará un daño permanente en la placa base.

Conector	Figure	Descripción
Conector de disquetera (33-pin FLOPPY1) (vea p.2, No. 19)	PIN1 FLOPPY1	la banda roja debe quedar en el mismo lado que el contacto 1

Atención: Asegúrese que la banda roja del cable queda situado en el mismo lado que el contacto 1 de la conexión.

IDE conector primario (azul)

(39-pin IDE1, vea p.2, No. 7)

PIN1 IDE1

Conector azul
a placa madre

Conector negro
a aparato IDE

Cable ATA 66/100/133 de conducción 80

Atención: Consulte las instrucciones del distribuidor del dispositivo IDE para conocer los detalles.

Conexiones de serie ATAII		
(SATAII_1 (PORT 0): vea p.2, No. 6) (SATAII_2 (PORT 1): vea p.2, No. 5) (SATAII_3 (PORT 2): vea p.2, No. 9) (SATAII_4 (PORT 3): vea p.2, No. 8)	SATAII_1 (PORT 0) SATAII_2 (PORT 1) SATAII_3 (PORT 2) SATAII_4 (PORT 3)	Estos cuatro conectores de la Serie ATA (SATAII) soportan HDDs SATA o SATAII para dispositivos de almacenamiento interno. La interfaz SATAII actual permite una velocidad de transferencia de 3.0 Gb/s.
Cable de datos de serie ATA (SATA) (Opcional)		Ambos extremos del cable pueden conectarse al disco duro SATA / SATAII o la conexión de la placa base.
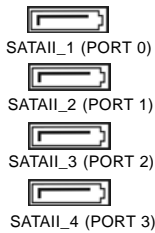
ASRock *N68PV-GS* Motherboard

Cable de alimentación
de serie ATA (SATA)

(Opcional)

Conectar a la conexión de
alimentación del disco
duro SATA

Conectar a la fuente
de alimentación

Conecte el extremo negro del
cable de SATA al conector de
energía de la unidad. A
continuación, conecte el
extremo blanco del cable de
alimentación SATA a la
conexión de alimentación de la
fuente de alimentación.

Cabezal USB 2.0

(9-pin USB6_7)

(ver p.2, No. 16)

(9-pin USB4_5)

(ver p.2, No. 12)

USB_PWR
P-7
P+7
GND
DUMMY
GND
P+6
P-6
USB_PWR

USB_PWR
P-5
P+5
GND DUMMY
GND
P+4
P-4
USB_PWR
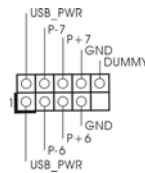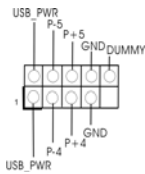
Además de cuatro puertos
USB 2.0 predeterminados en el
panel de E/S, hay dos bases
de conexiones USB 2.0 en
esta placa base. Cada una de
estas bases de conexiones
admite dos puertos USB 2.0.

Cabecera de puerto de impresora

(LPT1 de 25 terminales)

(vea p.2, N. 28)

AFD#
ERROR#
PINIT#
SLIN#
GND
SPD7
SPD6 ACK#
SPD5 BUSY
SPD4 PE
SPD3 SLCT
SPD2
SPD1
SPD0
STB#
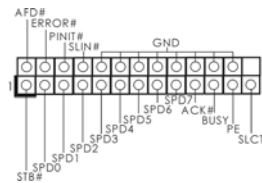
Esta es una interfaz de puerto
para cable de impresora que
permite conectar cómodamente
dispositivos de impresión.

nectores de la
AII) soportan
ATAII para
almacenamiento
faz SATAII actual
ocidad de
e 3.0 Gb/s.

Conector de Audio Interno

(4-pin CD1)

(CD1: vea p.2, No. 21)

GND GND
CD-L CD-R

CD1
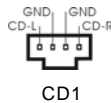
Permite recepción de input
audio de fuente sónica como
CD-ROM, DVD-ROM, TV tuner,
o tarjeta MPEG.

Conector de audio de panel
frontal

(9-pin HD_AUDIO1)

(vea p.2, No. 20)

GND
PRESENCE#
MIC_RET
OUT_RE1
OUT2_L
J_SENSE
OUT2_R
MIC2_R
MIC2_L
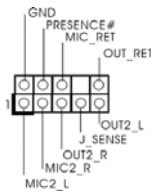
Este es una interface para
cable de audio de panel frontal
que permite conexión y control
conveniente de aparatos de
Audio.

Español

1. El Audio de Alta Definición soporta la detección de conector, pero el cable de panel en el chasis debe soportar HDA para operar correctamente. Por favor, siga las instrucciones en nuestro manual y en el manual de chasis para instalar su sistema.

2. Si utiliza el panel de sonido AC'97, instálelo en la cabecera de sonido del panel frontal de la siguiente manera:

   A. Conecte Mic_IN (MIC) a MIC2_L.

   B. Conecte Audio_R (RIN) a OUT2_R y Audio_L (LIN) en OUT2_L.

   C. Conecte Ground (GND) a Ground (GND).

   D. MIC_RET y OUT_RET son sólo para el panel de sonido HD. No necesitará conectarlos al panel de sonido AC'97.

   E. Entre en la Utilidad de configuración del BIOS Entre en Configuración avanzada y, a continuación, seleccione Configuración del conjunto de chips. En el panel de control frontal cambie la opción [Automático] a [Habilitado].

   F. Entre en el sistema Windows. Haga clic en el icono de la barra de tareas situada en la parte inferior derecha para entrar en el Administrador de audio HD Realtek.

   Para Windows® 2000 / XP / XP 64-bit OS:

   Haga clic en "E/S de audio", seleccione "Configuración de conectores"

   ![icon], elija "Deshabilitar la detección del conector del panel frontal" y guarde el cambio haciendo clic en "Aceptar".

   Para Windows® Vista™ / Vista™ 64-bit OS:

   Haga el clic el icono de la "Carpeta" de derecho-superior ![icon], eliga

   "Inhabilitable la detección del gato del panel delantero" y ahorre el cambio por chascando "OK".

   G. Para activar el micrófono frontal.

   Para el sistema operativo Windows® XP / XP de 64 bits:

   Seleccione "Micrófono frontal" como el dispositivo de grabación predeterminado. Si desea escuchar su propia voz a través del micrófono frontal, anule la selección del icono «Activar silencio» en "Micrófono frontal" de la sección "Reproducción".

   Para el sistema operativo Windows® Vista™ / Vista™ de 64 bits:

   Vaya a la ficha «Micrófono central» en el panel Control de Realtek. Haga clic en «Establecer dispositivo predeterminado» para convertir el micrófono central en el dispositivo de grabación predeterminado.
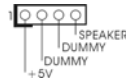
Conector del Panel del systema
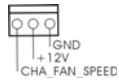
(9-pin PANEL1)

(vea p.2, No. 17)
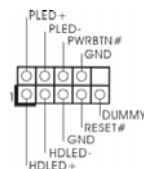
Este conector acomoda varias funciones de panel frontal del systema.

Cabezal del altavoz del chasis

(4-pin SPEAKER1)

(vea p.2, No. 15)

SPEAKER
DUMMY
DUMMY
+5V

Conecte el altavoz del chasis a
su cabezal.

Conector del ventilador
del chasis

(3-pin CHA_FAN1)

(vea p.2, No. 13)

GND
+12V
CHA_FAN_SPEED

Conecte el cable del ventilador
del chasis a este conector y
haga coincidir el cable negro
con el conector de tierra.

Conector del ventilador
de la CPU

(4-pin CPU_FAN1)

(vea p.2, No. 2)

FAN_SPEED_CONTROL   4
CPU_FAN_SPEED   3
+12V   2
GND   1

Conecte el cable del ventilador
de la CPU a este conector y
haga coincidir el cable negro
con el conector de tierra.

Aunque esta placa base proporciona compatibilidad para un ventilador
(silencioso) de procesador de 4 contactos, el ventilador de procesador de 3
contactos seguirá funcionando correctamente incluso sin la función de control
de velocidad del ventilador. Si pretende enchufar el ventilador de procesador
de 3 contactos en el conector del ventilador de procesador de esta placa base,
conéctelo al contacto 1-3.

Contacto 1-3 conectado

Instalación del ventilador de 3 contactos

Cabezal de alimentación ATX

(24-pin ATXPWR1)

(vea p.2, No. 4)

12   24

1   13
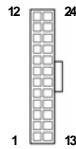
Conecte la fuente de
alimentación ATX a su cabezal.

A pesar de que esta placa base incluye in conector de
alimentación ATX de 24 pins, ésta puede funcionar incluso
si utiliza una fuente de alimentación ATX de 20 pins tradicional.
Para usar una fuente de alimentación ATX de 20 pins, por favor,
conecte su fuente de alimentación usando los Pins 1 y 13.

Instalación de una Fuente de Alimentación ATX de 20 Pins

12   24

1   13

Conector de ATX 12V power

(4-pin ATX12V1)

(vea p.2, No. 25)

Tenga en cuenta que es
necesario conectar este
conector a una toma de corriente
con el enchufe ATX 12V, de
modo que proporcione suficiente
electricidad. De lo contrario no
se podrá encender.

Español

Cabezal del puerto COM

(9-pin COM1)

(vea p.2, No. 18)

```
RRXD1
  DDTR#1
    DDSR#1
      CCTS#1
    RRI#1
   RRTS#1
  GND
 TTXD1
DDCD#1
```
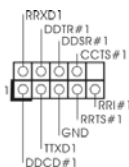
Este cabezal del puerto COM
se utiliza para admitir un
módulo de puerto COM.

2. BIOS Información

El Flash Memory de la placa madre deposita SETUP Utility. Durante el Power-Up
(POST) apriete <F2> para entrar en la BIOS. Sí usted no oprime ninguna tecla, el
POST continúa con sus rutinas de prueba. Si usted desea entrar en la BIOS después
del POST, por favor reinicie el sistema apretando <Ctl> + <Alt> + <Borrar>, o
apretando el botón Reset en el panel del ordenador. El programa SETUP esta
diseñado a ser lo mas fácil posible. Es un programa guiado al menu, es decir, puede
enrollarse a sus varios sub-menues y elegir las opciones predeterminadas. Para
información detallada sobre como configurar la BIOS, por favor refiérase al Manual del
Usuario (archivo PDF) contenido en el CD.

3.Información de Software Support CD

Esta placa-base soporta diversos tipos de sistema operativo Windows®: 2000 / XP / XP
Media Center / XP 64 bits / Vista™ / Vista™ 64 bits El CD de instalación que acompaña
la placa-base trae todos los drivers y programas utilitarios para instalar y configurar la
placa-base. Para iniciar la instalación, ponga el CD en el lector de CD y se desplegará el
Menú Principal automáticamente si «AUTORUN» está habilitado en su computadora. Si
el Menú Principal no aparece automáticamente, localice y doble-pulse en el archivo
ASSETUP.EXE para iniciar la instalación.

Español

1. Introdução

Gratos por comprar nossa placa–mãe **N68PV-GS**, um produto confiável feito com ASRock um estrito controle de qualidade consistente. Com um excelente desempenho, essa placa é dotada de um projeto robusto que atende a ASRock de compromisso com a qualidade e durabilidade.

Este Guia de Instalação Rápida apresenta a placa-mãe e o guia de instalação passo a passo. Mais informações detalhadas sobre a placa-mãe podem ser encontradas no manual do usuário do CD de suporte.

Porque as especificações da placa mãe e o software de BIOS poderiam ser atualizados, o conteúdo deste manual pode ser cambiado sem aviso. Em caso de qualquer modificação deste manual, a versão atualizada estará disponível no website de ASRock sem prévio aviso. Pode também encontrar as listas das mais recentes placas VGA e das CPUs suportadas no site da web da ASRock.

Website de ASRock   http://www.asrock.com

Se precisar de apoio técnico em relação a este placa-mãe, por favor visite o nosso sítio da internet para informação específica acerca do modelo que está a utilizar.
www.asrock.com/support/index.asp

1.1 Este pacote contém

Placa-mãe ASRock **N68PV-GS**
   (Formato Micro ATX: 9,6 pol. x 7,2 pol., 24,4 cm x 18,3 cm)
Guia de instalação rápida da ASRock **N68PV-GS**
CD de suporte da placa ASRock **N68PV-GS**
Um cabo-fita IDE Ultra ATA 66/100/133 de 80 condutores (Opcional)
Um cabo de dados ATA Serial (SATA) (Opcional)
Um cabo de alimentação da unidade de disco rígido ATA Serial (SATA) (Opcional)
Uma proteção I/O

1.2 Especificações

Plataforma	- Formato Micro ATX: 9,6 pol. x 7,2 pol., 24,4 cm x 18,3 cm
CPU	- Suporte para processadores Socket AM2+ / AM2: Processador AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core / Athlon X2 Dual-Core / Athlon 64 / Sempron (veja o **AVISO 1**)
	- Suporta a tecnologia AMD Cool 'n' Quiet™
	- FSB de 1000 MHz (2,0 GT/s)
	- Suporta a tecnologia Untied Overclocking (veja o **AVISO 2**)
	- Suporta a tecnologia Hyper-Transport
Chipsets	- NVIDIA® GeForce 7050 / nForce 630A MCP
Memória	- Suporte à tecnologia de memória de duplo canal (veja o **AVISO 3**)
	- 2 x slots de DDR2 DIMM
	- Suporte para memória não intermédia DDR2 1066/800/667/ 533, não ECC (veja o **AVISO 4**)
	- Capacidade máxima de memória do sistema: 4GB (veja o **AVISO 5**)
Slots de Expansão	- 1 x slot de PCI Express x16
	- 1 x slot de PCI Express x1
	- 2 x slots de PCI
VGA integrado	- Integrado NVIDIA® GeForce7 Series (NV44)
	- VGA DX9.0, Pixel Shader 3.0
	- Memória partilhada máxima 256MB (veja o **AVISO 6**)
	- Duplo VGA Saída: suportar DVI-D e D-Sub portas pelos controladores independentes de display
	- Suportar HDCP função com DVI-D porta
	- Suportar 1080p Blu-ray (BD) / HD-DVD playback (veja o **AVISO 7**)
	- NVIDIA® PureVideo™ Ready
Áudio	- Áudio de alta definição de canal 5.1 através do Windows® Vista™ (Codec de áudio ALC662)
	- Chipset encravado HDMI Audição
LAN	- Gigabit LAN 10/100/1000 Mb/s
	- Giga PHY Realtek RTL8211CL
	- Suporta Wake-On-LAN
Entrada/Saída pelo painel traseiro	I/O Panel
	- 1 x porta para mouse PS/2
	- 1 x porta para teclado PS/2
	- 1 x porta VGA/D-Sub
	- 1 x porta VGA/DVI-D (veja o **AVISO 8**)

ASRock *N68PV-GS* Motherboard

Português

	- 4 x portas USB 2.0 padrão
	- 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE)
	- HD Áudio Jack: Entrada de linha / Altifalante frontal / Microfone
Conectores	- 4 x conectores SATAII, suporte a taxa de transferência de dados de até 3,0 Gb/s, suporte RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ, AHCI e "conexão a quente" (veja o **AVISO 9**)
	- 1 x conectores ATA133 IDE (suporta até 2 dispositivos IDE)
	- 1 x porta para disquete
	- 1 x conector da porta COM
	- 1 x Conector de Porta de Impressão
	- Conector do ventilador da CPU/chassis
	- Conector de força do ATX de 24 pinos
	- Conector ATX 12 V de 4 pinos
	- Conectores internos de áudio
	- Conector Áudio do painel frontal
	- 2 x cabezal USB 2.0 (suportar 4 portas USB 2.0 adicionais) (veja o **AVISO 10**)
BIOS	- 4Mb BIOS AMI
	- BIOS AMI
	- Suporta dispositivos "Plug and Play"
	- ACPI 1.1 atendendo a eventos de "wake up"
	- Suporta dispositivos sem jumper
	- Suporte para SMBIOS 2.3.1
	- Suporte para Smart BIOS
CD de suporte	- Controladores, utilitários, software antivírus (Experimentacao Versao)
Funcionalidade Única	- Sintonizador ASRock OC (veja o **AVISO 11**)
	- Poupança de Energia Inteligente (veja o **AVISO 12**)
	- Booster híbrido
	- Frequência da CPU com controle contínuo (veja o **AVISO 13**)
	- ASRock U-COP (veja o **AVISO 14**)
	- B.F.G. (Boot Failure Guard)
	- ASRock AM2 Boost: Tecnologia patenteada da ASRock para melhorar o desempenho da memória até 12,5% (veja o **AVISO 15**)
Monitor do HW	- Sensores de temperatura do procesador
	- Medição de temperatura da placa-mãe

Português

	- Tacômetros de ventilador do Processador
	- Tacômetros de ventilador do chassis
	- Ventoinha silenciosa para a CPU
	- Monitoramento de voltagem : +12 V, +5 V, +3.3 V, Vcore
Sistema	- Microsoft® Windows® 2000 / XP / Centro de multimedia XP / XP 64-bit / Vista™ / Vista™ 64-bit Operacional
Certificações	- FCC, CE

* Para informações mais detalhadas por favor visite o nosso sítio Web:
  http://www.asrock.com

AVISO

Tenha em atenção que a operação de overclocking envolve alguns riscos, nomeadamente no que diz respeito ao ajuste das definições do BIOS, à aplicação da tecnologia Untied Overclocking ou à utilização de ferramentas de overclocking de terceiros. O overclocking pode afectar a estabilidade do seu sistema ou até mesmo causar danos ao nível dos componentes e dispositivos que integram o sistema. Esta operação é da total responsabilidade do utilizador. Não nos responsabilizamos pelos possíveis danos resultantes do overclocking.

AVISO!

1. Esta placa-mãe suporta CPUs até 95W. Consulte por favor o nosso sítio Web para obter uma lista de CPUs suportados.
   Web site da ASRock   http://www.asrock.com

2. Esta placa principal suporta a tecnologia Untied Overclocking. Consulte a secção "Tecnologia Untied Overclocking" na página 22 para mais informações.

3. Esta placa-mãe suporta a tecnologia de memória de duplo canal. Antes de implementar a tecnologia de memória de duplo canal, certifique-se de ler o guia de instalação dos módulos de memória na página 13 para a instalação correta.

4. O suporte de uma memória com uma velocidade de 1066 MHz depende da CPU AMd2+ que adoptar. Se quiser adoptar um módulo de memória DDR2 1066 para utilização com esta placa principal, consulte a lista de memória suportada no nosso web site para saber quais os módulos de memória compatíveis.
   Web site da ASRock   http://www.asrock.com

5. Devido às limitações do sistema operativo, o tamanho real da memória pode ser inferior a 4 GB uma vez que uma parte desta está reservada para utilização pelo sistema operativo no âmbito do Windows® XP e do Windows® Vista™. No caso da CPU de 64 bits do Windows® XP de 64 bits e do Windows® Vista™ de 64 bits, esta limitação não existe.

6. O máximo tamanho de memória compartilhada é definido por vendedor de chipset e é sujeito a mudar. Verifique o NVIDIA® website para a última informação.

Português

7. 1080p Blu-ray (BD) / HD-DVD playback suporta nesta tábua maderna requer a configuração apropriada de hardware. Refera à página 9 e 10 para o mínima necessidade de hardware e passar 1080p Blu-ray (BD) / HD-DVD filmes no nosso teste de laboratório.

8. Esta DVI-D porta para o chipset adoptado nesta tábua maderna pode suportar DVI/HDCP e HDMI formato sinal. Você pode usar o DVI para HDMI adaptador para converter esta DVI-D porta para o interface de HDMI interface. DVI para HDMI adaptador não é embrulhado com nosso produto, refera ao vendedor de adaptador para a informação.

9. Antes de instalar o disco duro SATAII no conector SATAII, por favor leia o "Guia de Instalação do Disco duro SATAII" na página 27 do Manual do Usuário no CD de suporte, para definir a sua unidade de disco duro SATAII com o modo SATAII. Também pode ligar directamente o disco duro SATA ao conector SATAII.

10. Power Management para USB 2.0 funciona bem embaixo de Microsoft® Windows® Vista™ de 64 bits / Vista™ / XP de 64 bits / XP SP1; SP2/2000 SP4.

11. É uma ferramenta de overclocking da ASRock fácil de utilizar que lhe permite vigiar i seu sistema via a função de monitorização de hardware e proceder ao overclock dos dispositivos de hardware para obter o melhor desempenho em ambiente Windows®. Por favor visite o nosso sítio Web para conhecer os procedimentos de funcionamento do Sintonizador ASRock OC.
    Sítio Web da ASRock: http://www.asrock.com

12. Com um hardware de propriedades e concepção de software avançadas, a Intelligent Energy Saver é uma tecnologia revolucionária que proporciona poupanças de energia inéditas. O regulador de voltagem pode reduzir o número de fases de saída para melhorar a eficiência quando os núcleos do CPU estão inactivos. Por outras palavras, pode providenciar uma excepcional poupança de energia e melhorar a eficiência energética sem sacrificar o desempenho. Para utilizar a função Poupança de Energia, por favor active a opção Cool 'n' Quiet na configuração da BIOS primeiro. Por favor visite o nosso sítio Web para conhecer os procedimentos de funcionamento da Poupança de Energia Inteligente. Sítio Web da ASRock: http://www.asrock.com

13. Apesar de esta placa-mãe oferecer controle continuamente variável, não se recomenda efetuar over-clock. Freqüências de barramento diferentes das recomendadas para a CPU podem provocar instabilidade do sistema ou danos à CPU.

14. Assim que se detecta um superaquecimento na CPU, o sistema se desliga automaticamente e o botão de energia do chassis fica inativo.Cheque o ventilador da CPU na placa–mãe, para verificar se está funcionando corretamente antes de religar o sistema. Para melhorar a dissipação de calor, lembre-se de aplicar o material de interface térmica entre o processador e o dissipador de calor.

Português

15. Esta placa principal suporta a tecnologia de overclocking ASRock AM2 Boost. Se activar esta função na configuração do BIOS, o desempenho da memória sofrerá um melhoramento até 12,5%, no entanto tal dependerá da CPU AM2 que adoptar. A activação desta função irá fazer o overclocking do chipset/do relógio de referência da CPU. No entanto, não podemos garantir a estabilidade do sistema para todas as configurações CPU/DRAM. Se o seu sistema ficar instável após a activação da função AM2 Boost é porque esta tecnologia pode não se aplicar ao seu sistema. Para manter a estabilidade do sistema, pode desactivar esta função.

1.3 Configuração dos Jumpers

A ilustração mostra como os jumpers são configurados. Quando há uma capa de jumpers sobre os pinos, diz–se que o jumper está "curto". Não havendo capa sobre os pinos, o jumper está "aberto". A ilustração mostra um jumper de 3 pinos em que os pinos 1 e 2 estãn "curtos" quando a capa de jumper estiver colocada sobre esses 2 pinos.

Short   Open
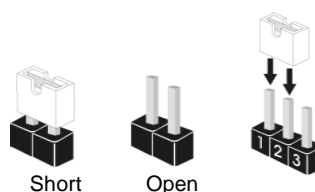
Jumper	Configuração		
PS2_USB_PW1 (veja a folha 2, No. 1)	1_2 +5V	2_3 +5VSB	Pin2, Pin3 curtos para habilitar +5VSB (stand by) para PS/2 ou eventos de wake up na USB.

Nota: Para escolher +5VSB, é preciso uma corrente de stand by de 2 A ou mais.

Restaurar CMOS (CLRCMOS1, jumper de 2 pinos) (veja a folha 2, No. 14)	1_2 Configuração-padrão	2_3 Limpar o CMOS

Nota: CLRCMOS1 permite você limpar os dados em CMOS. Os dados em CMOS incluem informações da configuração do sistema como: por exemplo a senha do sistema, data, tempo, e os parámetros da configuração do sistema. Para limpar e reconfigurar os parámetros do sistema a configuração inicial da fábrica, por favor desligue o cabo de força, ponha em curto–circuito os pin 2 e pin 3 de CLRCMOS1 por mais de 5 segundos para limpar o CMOS usando um jumper. Por favor lembrese de remover o jumper depois de limpar o COMS. Se precisar limpar o CMOS ao concluir a atualização do BIOS, deverá reiniciar o sistema primeiro e, em seguida, desligá-lo antes de executar a ação de limpeza o CMOS.

Português

72

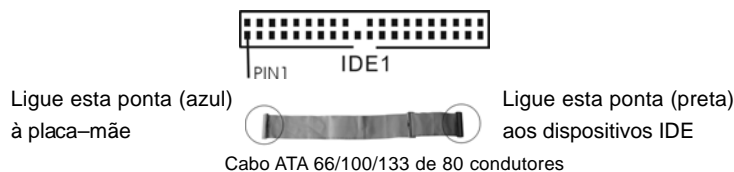ASRock *N68PV-GS* Motherboard

1.4 Conectores

Os conectores NÃO SÃO jumpers. NÃO coloque capas de jumper sobre estes conectores. A colocação de pontos de jumper sobre os conectores causará danos irreversíveis à placa-mãe.

Conector	Figura	Descrição
Conector FDD (FLOPPY 1, 33 pinos) (veja a folha 2, No. 19)	PIN1 FLOPPY1	o lado com listras vermelhas para o Pino 1

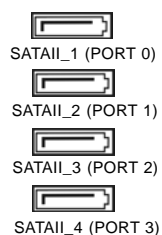Nota: Certifique-se de que o lado com listras vermelhas no cabo seja conectado ao lado Pino 1 do conector.

Conector primário (Azul)
(IDE1 de 39 pinos, veja a folha 2, No. 7)

PIN1 IDE1

Ligue esta ponta (azul) à placa–mãe

Ligue esta ponta (preta) aos dispositivos IDE

Cabo ATA 66/100/133 de 80 condutores

Nota: Para detalhes, consulte as instruções do fornecedor do seu dispositivo IDE.

Conectores ATAII Serial		Estes quatro conectores Serial
(SATAII_1 (PORT 0): veja a folha 2, No. 6)	SATAII_1 (PORT 0)	ATA (SATAII) suportam unidades de disco rígido SATA
(SATAII_2 (PORT 1): veja a folha 2, No. 5)	SATAII_2 (PORT 1)	ou SATAII como dispositivos de armazenamento internos. A
(SATAII_3 (PORT 2): veja a folha 2, No. 9)	SATAII_3 (PORT 2)	atual interface SATAII permite uma taxa de transferência de
(SATAII_4 (PORT 3): veja a folha 2, No. 8)	SATAII_4 (PORT 3)	dados de até 3.0 Gb/s.

Cabo de dados ATA (SATA) (opcional)

Tanto a saída do cabo de Serial dados SATA pode ser conectado ao disco rígido SATA / SATAII quanto o conector SATAII na placa mãe.

Cabo de Alimentação
ATA (SATA)
(opcional)

Ligue no conector de
alimentação SATA HDD

Conecte a fonte

Conecte a saída de cor preta
do cabo de alimentação SATA
ao conector de alimentação
em cada acionador. Em
seguida, conecte a saída
branca do cabo de alimentação
SATA ao conector de
alimentação da fonte.

Cabezal USB 2.0

(USB6_7 de 9 pinos)
(veja a folha 2, No. 16)

USB_PWR
P-7
P+7
GND
DUMMY
GND
P+6
P-6
USB_PWR
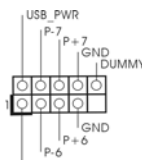
(USB4_5 de 9 pinos)
(veja a folha 2, No. 12)

USB_PWR
P-5
P+5
GND DUMMY
GND
P-4
USB_PWR
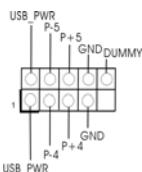
Além das quatro portas USB
2.0 por defeito no painel de
entrada/saída, há duas
ligações USB 2.0 nesta placa-
mãe. Cada ligação USB 2.0
pode suportar duas portas USB
2.0.

Conector de Porta de Impressão

(LPT1 de 25 pinos)
(veja a folha 2, No. 28)

AFD#
ERROR#
PINIT#
SLIN#
GND
SPD7
SPD6 ACK#
SPD5 BUSY
SPD4 PE
SPD3 SLCT
SPD2
SPD1
SPD0
STB#
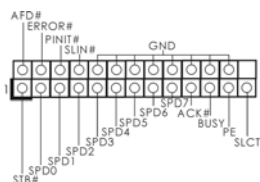
Esta é uma interface para um
cabo de porta de impressão
que permite uma ligação
prática para dispositivos de
impressão.

Conectores internos de áudio

(CD1 de 4 pinos)
(CD1: veja a floha 2, No. 21)

GND GND
CD-L CD-R

CD1
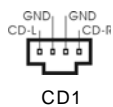
Estes conectores permitem
que se receba entrada de
áudio em estéreo de fontes
de áudio como CD-ROM,
DVD-ROM, placa sintonizadora
de TV ou placa MPEG.

Conector Áudio do painel
frontal

(HD_AUDIO1 de 9 pinos)
(veja a folha 2, No. 20)

GND
PRESENCE#
MIC_RET
OUT_RE1
OUT2_L
J_SENSE
OUT2_R
MIC2_R
MIC2_L
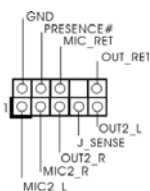
Esta é uma interface para o
cabo de áudio no painel frontal,
que permite uma conexão e
controle convenientes dos
dispositivos de áudio.

Português

74

1. Áudio de elevada definição que suporta a sensibilidade da tomada, mas o fio do painel existente no chassis tem de suportar HDA para funcionar correctamente. Siga s instruções que aparecem no manual e no manual do chassis para instalar o sistema.

2. Se utilizar o painel de áudio AC'97, instale-o no cabeçalho de áudio do painel frontal, como a figura abaixo mostra:

   A. Ligue o Mic_IN (MIC) ao MIC2_L.

   B. Ligue o Audio_R (RIN) ao OUT2_R e o Audio_L (LIN) ao OUT2_L.

   C. Ligue o Ground (GND) ao Ground (GND).

   D. MIC_RET e OUT_RET são apenas para o painel de áudio HD. Não necessita de os ligar para o painel de áudio AC'97.

   E. Entre no utilitário de configuração do BIOS. Vá até à opção Definições avançadas e escolha Configuração do chipset. Defina a opção Controlo do painel frontal de [Automático] para [Activado].

   F. Entre no sistema Windows. Clique no ícone existente na barra de tarefas no canto inferior direito para aceder ao Realtek HD Audio Manager.

   Para Windows® 2000 / XP / XP de 64 bits OS:

   Clique em "Entrada/Saída de áudio", seleccione "Definições do conector" [ ] , escolha a opção "Desactivar detecção da tomada do painel frontal" e guarde a alteração clicando em "OK".

   Para Windows® Vista™ / Vista™ de 64 bits OS:

   Clique o direito-cima "Folder" icone [ ] , escolhe "Deteção de valete de painel dianteiro" e guarda a mudança por clicar "OK".

   G. Para activar o microfone frontal

   Para Windows® 2000 / XP / XP 64-bit OS:

   Queira seleccionar "Front Mic" (Microfone Frontal) como dispositivo de gravação predefinido.

   Se quer ouvir a sua voz através do microfone frontal, queira desmarcar o ícone "Mute" (Sem som) em "Front Mic" (Microfone Frontal) da parte "Playback" (Reprodução).
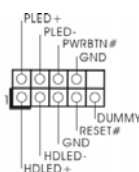
   Para Windows® Vista™ / Vista™ 64-bit OS:

   Vá ao separador "Front Mic" (Microfone Frontal) no painel de controlo Realtek. Clique em "Set Default Device" (Definir Dispositivo como Predefinido) para fazer com que o Microfone Frontal seja o dispositivo de gravação predefinido.

Conector do sistema no painel
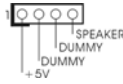
(PANEL1 de 9 pinos)

(veja a folha 2, No. 17)

Este conector acomoda diversas funções de sistema no painel frontal.

PLED+
PLED-
PWRBTN#
GND
DUMMY
RESET#
GND
HDLED-
HDLED+

75

ASRock *N68PV-GS* Motherboard

Conector do alto-falante
do chassi

(SPEAKER1 de 4 pinos)

(veja a folha 2, No. 15)

SPEAKER
DUMMY
DUMMY
+ 5V

Ligue o alto-falante do chassi
neste conector.

Conector do ventilador do
chassis

(CHA_FAN1 de 3 pinos)

(veja a folha 2, No. 13)

GND
+ 12V
CHA_FAN_SPEED
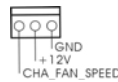
Ligue o cabo do ventilador neste
conector, coincidindo o fio preto
com o pino de aterramento.

Conector do ventilador da
CPU

(CPU_FAN1 de 4 pinos)

(veja a folha 2, No. 2)

FAN_SPEED_CONTROL — 4
CPU_FAN_SPEED — 3
+12V — 2
GND — 1
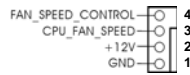
Ligue o cabo do ventilador da
CPU, coincidindo o fio preto com
o pino de aterramento.

Apesar de esta placa-mãe possuir 4 apoios para uma ventoinha de CPU
(Ventoinha silenciosa), uma ventoinha de 3 pinos para CPU poderá funcionar
mesmo sem a função de controlo de velocidade da ventoinha. Se pretender
ligar uma ventoinha de 3 pinos para CPU ao conector de ventoinha do CPU
nesta placa-mãe, por favor, ligue-a aos pinos 1-3.

Pinos 1-3 ligados ←

Instalação de Ventoinha de 3 pinos

Conector de força do ATX

(ATXPWR1 de 24 pinos)

(veja a folha 2, No. 4)

12   24

1   13
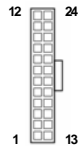
Ligue a fonte de alimentação
ATX neste conector.

Embora esta placa-mãe providencie um conector de energia
ATX de 24 pinos, pode apesar disso funcionar com a
adapta-ção de uma fonte de energia tradicional de 20 pinos.
Para usar a fonte de alimentação de 29 pinos, por favor ligue
a sua fonte de alimentação com o Pino 1 e o Pino 13.

12   24

1   13

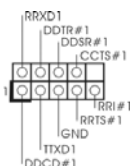Instalação da Fonte de alimentação ATX de 20 Pinos

Conector ATX 12 V

(ATX12V1 de 4 pinos)

(veja a folha 2, No. 25)

Note que é necessário ligar
uma fonte de alimentação com
conector ATX 12V neste
conector para fornecer
alimentação suficiente. Do
contrário, haverá falhas de
funcionamento.

Conector da porta COM

(COM1 de 9 pinos)

(veja a folha 2, No. 18)

Este conector é usado para suportar um módulo de porta COM.

RRXD1
DDTR#1
DDSR#1
CCTS#1
RRI#1
RRTS#1
GND
TTXD1
DDCD#1

2. Informações da BIOS

A Memória Flash da placa–mãe armazena o utilitário de configuração da BIOS. Quando você ligar o computador, pressione < F2 > durante a inicialização (POST) para entrar nas configurações da BIOS; caso contrário o POST continua com suas rotinas de teste. Caso você queira entrar nas configurações da BIOS após o POST, reinicie o sistema pressionando <Ctrl> + <Alt> +<Del>, ou pressionando a tecla de reset no gabinete. Também se pode reinicializar desligando a máquina e ligando–a novamente. Para informações mais detalhadas sobre a configuração da BIOS, consulte o manual do usuário (em pdf) contido no CD de instalação.

3. Informações do CD de Suporte

Esta placa Mãe suporta vários sistemas operacionais: Microsoft® Windows®: 2000 / XP / Centro de multimedia XP / XP de 64 bits / Vista™ / Vista™ de 64 bits. O CD de instalação que acompanha a placa Mãe contem: drivers e utilitários necessários para um melhor desempenho da placa Mãe. Para começar a usar o CD de instalação, introduza o CD na leitora de CD-ROM do computador. Automaticamente iniciará o menu principal, casa o "AUTORUN" esteja ativado. Se o menu principal não aparecer automaticamente, explore o CD e execute o "ASSETUP.EXE" localizado na pasta "BIN".

1. 主板简介

谢谢你采用了华擎 *N68PV-GS* 主板，本主板由华擎严格制造，质量可靠，稳定性好，能够获得卓越的性能。此快速安装指南包括主板介绍和分步安装向导。您可以查看支持光盘里的用户手册了解更详细的资料。

> 由于主板规格和 BIOS 软件将不断升级，本手册之相关内容变更恕不另行通知。请留意华擎网站上公布的升级版本。你也可以在华擎网站找到最新的显卡和 CPU 支持表。
> 华擎网址：http://www.asrock.com
> 如果您需要与此主板有关的技术支持，请参观我们的网站以了解您使用机种的规格信息。
> www.asrock.com/support/index.asp

1.1 包装盒内物品

华擎 *N68PV-GS* 主板
 （Micro ATX 规格：9.6 英寸 X 7.2 英寸，24.4 厘米 X 18.3 厘米）
华擎 *N68PV-GS* 快速安装指南
华擎 *N68PV-GS* 支持光盘
一条 80-conductor Ultra ATA 66/100/133 IDE 排线（选配）
一条 Serial ATA(SATA) 数据线（选配）
一条 Serial ATA(SATA) 硬盘电源线（选配）
一块 I/O 挡板

简体中文

1.2 主板规格

架构	– Micro ATX 规格： 9.6英寸 X 7.2英寸，24.4厘米 X 18.3厘米
处理器	– 支持Socket AM2+/AM2处理器：AMD Phenom™ FX/Phenom/ Athlon 64 FX/Athlon 64 X2 Dual-Core/Athlon X2 Dual- Core/Athlon 64/Sempron 处理器（详见*警告*1） – 支持 AMD Cool 'n' Quiet™ 冷静技术 – 支持 FSB 1000 MHz (2.0 GT/s) – 支持异步超频技术（详见*警告*2） – 支持 Hyper-Transport 技术
芯片组	– NVIDIA® GeForce 7050 / nForce 630A MCP
系统内存	– 支持双通道内存技术（见警告3） – 配备2个DDR2 DIMM 插槽 – 支持DDR2 1066/800/667/533 non-ECC、un-buffered 内存（见*警告*4） – 最高支持4GB 系统容量（见*警告*5）
扩展插槽	– 1 x PCI Express x16 插槽 – 1 x PCI Express x1 插槽 – 2 x PCI 插槽
板载显卡	– 集成 NVIDIA® GeForce7 系列显示核心 (NV44) – DX9.0 显卡，Pixel Shader 3.0 技术 – 最大共享内存 256MB（见警告6） – 双VGA输出：通过独立显示控制器提供DVI-D 和D-Sub 接口 – 通过 DVI-D 接口支持 HDCP 功能 – 可播放 1080 线蓝光光盘(BD) / HD-DVD 光盘 （见*警告*7） – 支持 NVIDIA® PureVideo™ 技术
音效	– 5.1 声道 Windows® Vista™ Premium 级别高保真音频 (ALC662 音频编解码器) – 芯片组集成 HDMI 声卡
板载 LAN 功能	– Gigabit LAN 10/100/1000 Mb/s – Giga PHY Realtek RTL8211CL – 支持网路唤醒 (Wake-On-LAN)
Rear Panel I/O （后面板输入/ 输出接口）	I/O 界面 – 1个PS/2 鼠标接口 – 1个PS/2 键盘接口 – 1个VGA/D-Sub 接口 – 1个VGA/DVI-D 接口 （见*警告*8） – 4个可直接使用的 USB 2.0 接口 – 1个RJ-45 局域网接口与 LED 指示灯 (ACT/LINK LED 和 SPEED LED)

24

	– 高保真音频插孔：音频输入／前置喇叭／麦克风
连接头	– 4 x SATAII 3.0Gb/s 连接头，支持RAID（RAID 0，RAID 1，RAID 0+1，RAID 5，JBOD），NCQ，AHCI 和"热插拔"功能 （详见**警告**9）
	– 1 x ATA133 IDE 插座 （最高支持2个IDE驱动器）
	– 1 x 软驱接口
	– 1 X 串行接口连接器
	– 1 x 打印机端口接针
	– CPU/机箱风扇接头
	– 24 针 ATX 电源接头
	– 4 针 12V 电源接头
	– 内置音频接头
	– 前置音频面板接头
	– 2 x USB 2.0接口 （可支持4个额外的USB 2.0接口）（详见**警告**10）
BIOS	– 4Mb AMI BIOS
	– 采用AMI BIOS
	– 支持即插即用 （Plug and Play,PnP）
	– ACPI 1.1 电源管理
	– 支持唤醒功能
	– 支持jumperfree 免跳线模式
	– 支持SMBIOS 2.3.1
	– 支持Smart BIOS （智能BIOS）
支持光盘	– 驱动程序,工具软件,杀毒软件 （测试版本）
独家功能	– 华擎超频调节器 （详见**警告**11）
	– 智能节能器(Intelligent Energy Saver)(见警告12)
	– Hybrid Booster(安心超频技术)：
	– 支持CPU 无级频率调控 （见警告13）
	– ASRock U-COP （见警告14）
	– Boot Failure Guard (B.F.G.,启动失败恢复技术)
	– ASRock AM2 Boost：华擎专利技术,提供内存性能 12.5% （见**警告**15）
硬件监控器	– CPU 温度检测
	– 主板温度侦测
	– CPU 风扇转速计
	– 系统风扇转速计
	– CPU 静音风扇
	– 电压范围：+12V，+5V，+3.3V，核心电压
操作系统	– Microsoft® Windows® 2000/XP/XP 多媒体中心/XP 64 位元/Vista™/Vista™ 64 位元适用于此主板
认证	– FCC，CE

* 请参阅华擎网站了解详细的产品信息：http://www.asrock.com

简体中文

警告!

1. 此主板支持高达 95W 的 CPU。请阅读我们网站的 CPU 支持列表了解兼容的 CPU。华擎网站 http://www.asrock.com

2. 这款主板支持异步超频技术。请阅读第 22 页的"Untied Overclocking Technology"(自由超频技术)了解详情。

3. 这款主板支持双通道内存技术。在您实现双通道内存技术之前,为能正确安装,请确认您已经阅读了第 13 页的内存模组安装指南。

4. 1066MHz 内存频率是否支持在于您使用的 AM2+ CPU。如果您想在这款主板上使用 DDR2 1066 内存条,请查阅我们网站的内存支持列表了解兼容的内存。华擎网站 http://www.asrock.com

5. 由于操作系统的限制,在 Windows® XP 和 Windows® Vista™ 下,供系统使用的实际内存容量可能小于 4GB。对於 Windows® XP 64 位元和 Windows® Vista™ 64 位元搭配 64 位元 CPU 来说,不会存在这样的限制。

6. 最大共享内存大小由芯片组厂商定义并且可以更改。请查阅 NVIDIA® 网站了解最新资讯。

7. 在这款主板上播放 1080 线蓝光光盘(BD)/HD-DVD 光盘需要适当的硬件配置。请查阅第 9 页和第 10 页了解最低硬件要求和通过我们实验室测试的 1080 线蓝光光盘(BD)/HD-DVD 光盘电影。

8. 这款主板芯片组提供的 DVI-D 接口可以支持 DVI/HDCP 和 HDMI 格式的信号。您可以使用 DVI 转 HDMI 适配器将 DVI-D 接口转为 HDMI 接口。DVI 转 HDMI 适配器并不随产品附赠,请咨询适配器厂商了解更多信息。

9. 在将 SATAII 硬盘连接到 SATAII 接口之前,请阅读 CD 光盘中的"User Manual"(用户手册,英文版)第 27 页的"SATAII Hard Disk Setup Guide"(SATAII 硬盘安装指南)调整您的 SATAII 硬盘驱动器为 SATAII 模式。您也可以直接将 SATA 硬盘连接到 SATAII 接口。

10. USB2.0 电源管理在 Windows® Vista™ 64 位元 /Vista™/XP 64 位元 /XP SP1 或 SP2/2000 SP4 系统下可正常工作。

11. 这是一款具有友好使用介面的华擎超频工具,让您通过硬件监控功能监控您的系统,帮助您在 Windows® 环境下对硬件运行超频以获得最佳的系统性能。请访问我们的网站了解华擎超频调节器的使用方法。
华擎网站:http://www.asrock.com

12. 智能节能器(Intelligent Energy Saver)采用先进的软硬件专利设计,这项革新技术带来极佳的节能效果。当 CPU 核心闲置时,电压调节器可以简小输出电压的相数,有助于提升能源效率。换句话说,它可以在不牺牲性能的前提下,让系统更省电,并提高能源效率。为了使用智能节能器(Intelligent Energy Saver)的功能,请在 BIOS 的高级设置里启用 Cool 'n' Quiet 选项。请访问我们的网站了解智能节能器(Intelligent Energy Saver)的使用方法。华擎网站:http://www.asrock.com

13. 尽管本主板提供无级频率调控,但不推荐用户超频使用。不同于标准 CPU 总线频率的非标准频率可能会使系统不稳定,甚至会损害 CPU 和主板。主板的处理器主频由跳线装置决定。

简体中文

14. 当检测到 CPU 过热问题时，系统会自动关机。在您重新启动系统之前，请检查主板上的 CPU 风扇是否正常运转并拔出电源线，然后再将它插回。为了提高散热性，在安装 PC 系统时请在 CPU 和散热器之间涂一层导热胶。

15. 这款主板支持 ASRock AM2 Boost 超频技术。如果您在 BIOS 设置程序里启用该功能，内存性能将提升 12.5%，但是实际效果还与您所使用的 AM2 CPU 有关。启用这项功能将对芯片组 /CPU 进行超频。但是，我们无法保证所有 CPU/ 内存配置的系统稳定性。如果您启用 AM2 Boost 功能之后，系统变的不稳定，表明它可能不适合您的系统。您可以选择关闭该功能，以保证系统的稳定性。

1.3 跳线设置

插图所示的就是设置跳线的方法。当跳线帽放置在针脚上时，这个跳线就是"短接"。如果针脚上没有放置跳线帽，这个跳线就是"开路"。插图显示了一个 3 针脚的跳线，当跳线帽放置在针脚 1 和针脚 2 之间时就是"短接"。

短接　　　开路
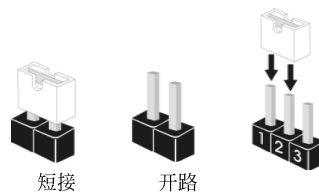
接 脚	设 定	
PS2_USB_PW1 （见第 2 页第 1 项）	1_2 +5V　　2_3 +5VSB	短接 pin2 和 pin3，就可以设置 +5VSB（待机），使 PS/2 或 USB 能唤醒系统。

注意： 选择 +5VSB，电源必须能提供 +2 AMP 或更高的待机电流。

清除 CMOS （CLRCMOS1，3 针脚跳线） （见第 2 页第 14 项）	1_2 默认设置　　2_3 清除 CMOS

注意： CLRCMOS1 允许您清除 CMOS 里的资料。在 CMOS 里的资料包括系统设置资讯，例如系统密码，日期，时间及系统设置参数。为了清除并重置系统参数到默认设置.请关闭电脑并拔掉电源线，然后用跳线帽短接 CLRCMOS1 上的 pin2 和 pin3 五秒钟。如果您需要再完成 BIOS 刷新时清除 CMOS，您必须首先启动系统，然后在您进行 CMOS 清除操作之前关闭系统。

1.4 连接头

⚠ 此类连接头是不用跳线帽连接的，请不要用跳线帽短接这些连接头。跳线帽不正确的放置将会导致主板的永久性损坏！

连接头图示	说 明	
软驱接头 （33针 FLOPPY1） （见第 2 页第 19 项）	PIN1 FLOPPY1	将标示红色斑纹的一边插入第 1 针脚（Pin1）

注意： 请确保数据线标红色斑纹的一边插入连接器第 1 针脚（Pin1）的位置。

主 IDE 连接头(蓝色)

(39针 IDE1，见第2页第7项)

IDE1

PIN1

蓝色端接到主板上　　　　　　　　　　　　黑色端接到硬盘驱动器上

80 针 的 ATA 66/100/133 排线

注意： 请查阅您的 IDE 驱动器供应商提供的说明书了解详细资料。

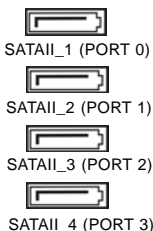|		
Serial ATAII 接口 (SATAII_1 (PORT 0):见第2页第6项) (SATAII_2 (PORT 1):见第2页第5项) (SATAII_3 (PORT 2):见第2页第9项) (SATAII_4 (PORT 3):见第2页第8项)	SATAII_1 (PORT 0) SATAII_2 (PORT 1) SATAII_3 (PORT 2) SATAII_4 (PORT 3)	这里有四组 Serial ATAII (SATAII)接口支持 SATA 或 SATAII 硬盘作为内部储存设置。目前 SATAII 界面理论上可提供高达 3.0Gb/s 的数据传输速率。
Serial ATA (SATA) 据线 (选配)		SATA 数据线的任意一端均可数连接 SATA/SATAII 硬盘或者主板上的 SATAII 接口。
Serial ATA (SATA) 电源线 (选配) 连接到 SATA 硬盘电源接口 连接到电源适配器		请将 SATA 电源线黑色的一端连接到 SATA 驱动器的电源接口。然后将 SATA 电源线白色的一端连接到电源适配器的电源接口。
USB 2.0 扩展接头 (9针 USB6_7) (见第2页第16项)	USB_PWR P-7 P+7 GND DUMMY GND P+6 P-6 USB_PWR	除了位於 I/O 面板的四个默认 USB 2.0 接口之外，这款主板有两组 USB 2.0 接针。每组 USB 2.0 接针可以支持两个 USB 2.0 接口。
(9针 USB4_5) (见第2页第17项)	USB_PWR P-5 P+5 GND DUMMY GND P+4 P-4 USB_PWR	
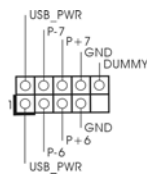
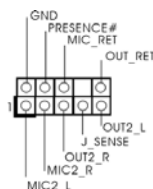**ASRock N68PV-GS Motherboard**
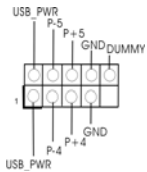
打印机端口接针
(25针 LPT1)
(见第2页第28项)
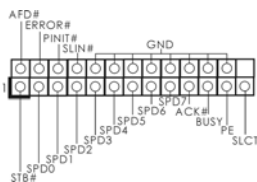
这是一个连接打印机端口的接口，方便您连接打印机设备。

内置的音频接头
(4针 CD1)
(CD1 见第2页第21项)

CD1
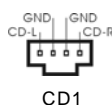
可以通过 CD-ROM， DVD-ROM，TV 调谐器或 MPEG 卡接收音频输入。

前置音频面板接头
(9针 HD_AUDIO1)
(见第2页第20项)

可以方便连接音频设备。

1. 高保真音频(High Definition Audio，HDA)支持智能音频接口检测功能(Jack Sensing)，但是机箱面板的连线必须支持 HDA 才能正常使用。请按我们提供的手册和机箱手册上的使用说明安装您的系统。

2. 如果您使用 AC'97 音频面板，请按照下面的步骤将它安装到前面板音频接针：
   A. 将 Mic_IN(MIC) 连接到 MIC2_L。
   B. 将 Audio_R(RIN) 连接到 OUT2_R，将 Audio_L(LIN) 连接到 OUT2_L。
   C. 将 Ground(GND) 连接到 Ground(GND)。
   D. MIC_RET 和 OUT_RET 仅用于 HD 音频面板。您不必将它们连接到 AC'97 音频面板。
   E. 进入 BIOS 设置程序。进入 Advanced Settings(高级设置)并选择 Chipset Configuration(芯片组配置)。将 Front Panel Control (前面板控制)选项由 Auto(自动) 设置为 Enabled(启用)。
   F. 进入 Windows 系统。点击右下角任务栏上的图标进入 Realtek HD Audio Manager(Realtek 高保真音频管理器)。
      支持 Windows® 2000/XP/XP 64 位元操作系统：
      点击"Audio I/O"(音频输入/输出接口)，点选"Connector Settings"(连接设置) ，选择"Disable front panel jack detection"(关闭前面板插孔检测)并点击"OK"保存更改。
      支持 Windows® Vista™/Vista™ 64 位元操作系统：
      点击右上角的"Folder"(文件)图标 ，选择"Disable front panel jack detection"(关闭前面板插孔检测)并点击"OK"保存更改。

简体中文

G. 启用前置麦克风。

　　支持 Windows® 2000/XP/XP 64 位元操作系统：
　　请选择"Front Mic"(前置麦克风)作为默认录音设备。
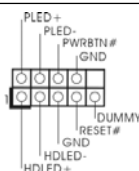　　如果您想通过前置麦克风聆听您的声音,请点击"Playback"(播放)部分"Front Mic"(前置麦克风)一项里的"Mute"(静音)图标。
　　支持 Windows® Vista™/Vista™ 64 位元操作系统：
　　进入 Realtek 控制面版的"Front Mic"(前置麦克风)选项卡。
　　点击"Set Default Device"(设置默认设备)将前置麦克风设置为默认录音设备。

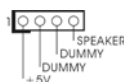|		
系统面板接头 (9针 PANEL1) (见第2页第17项)	PLED+ PLED- PWRBTN# GND DUMMY RESET# GND HDLED- HDLED+	可接各种不同灯，电源开关及重启键等各种连线。
机箱喇叭接头 (4针 SPEAKER1) (见第2页第15项)	SPEAKER DUMMY DUMMY +5V	请将机箱喇叭连接到这个接头。
机箱风扇接头 (3针 CHA_FAN1) (见第2页第13项)	GND +12V CHA_FAN_SPEED	请将机箱风扇连接线接到这个接头，并让黑线与接地的针脚相接。
CPU 风扇接头 (4针 CPU_FAN1) (见第2页第2项)	FAN_SPEED_CONTROL 4 CPU_FAN_SPEED 3 +12V 2 GND 1	请将CPU 风扇连接线接到这个接头，并让黑线与接地的针脚相接。
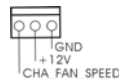
虽然此主板支持4-Pin CPU 风扇(Quiet Fan,静音风扇)，但是没有调速功能的3-Pin CPU 风扇仍然可以在此主板上正常运行。如果您打算将3-Pin CPU 风扇连接到此主板的CPU 风扇接口,请将它连接到Pin 1-3 。
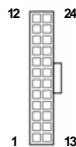
Pin 1-3 连接 ◀━
3-Pin 风扇的安装

ATX 电源接头 (24针 ATXPWR1) (见第2页第4项)	12　24 1　13	请将ATX 电源供应器连接到这个接头。

简体中文

虽然此主板提供24-pin ATX 电源接口,但是您仍然可以使用传统的20-pin ATX 电源。为了使用20-pin ATX 电源,请顺著Pin 1 和Pin 3 插上电源接头。

12 24

1 13

20-Pin ATX 电源安装说明

ATX 12V 电源接口

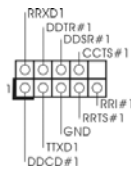(4针 ATX12V1)

(见第2页第25项)

请注意,必需将带有ATX 12V 插头的电源供应器连接到这个插座,这样就可以提供充足的电力。如果不这样做,就会导致供电故障。

串行接口连接器

(9针 COM1)

(见第2页第18项)

RRXD1
DDTR#1
DDSR#1
CCTS#1
RRI#1
RRTS#1
GND
TTXD1
DDCD#1

这个COM1 端口支持一个串行接口的外设。

3. BIOS 信息

主板上的Flash Memory 芯片存储了BIOS 设置程序。启动计算机,在机器开机自检(POST)的过程中按下<F2>键,就可进入BIOS 设置程序,否则将继续进行开机自检之常规检验。如果须要在开机自检后进入BIOS 设置程序,请按下 <Ctl> + <Alt> + <Delete>键重新启动计算机,或者按下系统面板上的重启按钮。功能设置程序储存有主板自身的和连接在其上的设备的缺省和设定的参数。这些信息用于在启动系统和系统运行需要时,测试和初始化元器件。有关BIOS 设置的详细信息,请查阅随机支持光盘里的用户手册(PDF 文件)。

4. 支持光盘信息

本主板支持各种微软视窗操作系统: Microsoft® Windows® 2000/XP/XP 多媒体中心 /XP 64 位元 /Vista™/Vista™ 64 位元。主板附带的支持光盘包含各种有助于提高主板效能的必要驱动和实用程序。请将随机支持光盘放入光驱里,如果计算机的 "自动运行" 功能已启用,屏幕将会自动显示主菜单。如果主菜单不能自动显示,请查找支持光盘内BIN 文件夹下的ASSETUP.EXE 文件并双击它,即可调出主菜单。

安装

简体中文

电子信息产品污染控制标示

依据中国发布的「电子信息产品污染控制管理办法」及 SJ/T 11364-2006「电子信息产品污染控制标示要求」，电子信息产品应进行标示，藉以向消费者揭露产品中含有的有毒有害物质或元素不致发生外泄或突变从而对环境造成污染或对人身、财产造成严重损害的期限。依上述规定，您可于本产品之印刷电路板上看见图一之标示。图一中之数字为产品之环保使用期限。由此可知此主板之环保使用期限为10年。

图一

有毒有害物质或元素的名称及含量说明

若您欲了解此产品的有毒有害物质或元素的名称及含量说明，请参照以下表格及说明。

部件名称	有害物质或元素					
	铅(Pb)	镉(Cd)	汞(Hg)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
印刷电路板及其电子组件	X	O	O	O	O	O
外部信号连接头及线材	X	O	O	O	O	O

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求，然该部件仍符合欧盟指令 2002/95/EC 的规范。

备注: 此产品所标示之环保使用年限，系指在一般正常使用状况下。

简体中文

1. 제품소개

ASRock의 *N68PV-GS*메인 보드를 구매하여 주신것에 대하여 감사 드립니다. 이 메인 보드는 엄격한 품질관리 하에 생산되어진 신뢰성 있는 메인보드 입니다. 이 제품은 고품격 디자인과 함께 ASRock의 우수한 품질과 최고의 안정성을 자랑하고 있습니다. 이 빠른 설치 안내서에는 마더보드에 대한 설명과 단계별 설치 방법이 실려 있습니다. 마더보드에 대한 보다 자세한 내용은 지원 CD의 사용 설명서에서 확인할 수 있습니다.

메인보드의 사양이나 바이오스가 업 데이트 되기 때문에 이 사용자 설명서의 내용은 예고 없이 변경되거나 바뀔 수가 있습니다. 만일을 생각해서 이 사용자 설명서의 어떤 변경이 있으면 ASRock의 웹 사이트에서 언제든지 업 데이트를 하실 수 있습니다. 웹사이트에서 최신 VGA 카드와 CPU 지원 목록을 확인할 수 있습니다. ASRock의 웹사이트 주소는 http://www.asrock.com 입니다. 본 머더보드와 관련하여 기술 지원이 필요한 경우 당사 웹 사이트를 방문하여 사용 중인 모델에 대한 특정 정보를 얻으십시오. www.asrock.com/support/index.asp

1.1 패키지 내용

ASRock *N68PV-GS* 마더보드
     (Micro ATX 폼 팩터: 9.6" X 7.2", 24.4 X 18.3 cm)
ASRock *N68PV-GS* 퀵 설치 가이드
ASRock *N68PV-GS* 지원 CD
80도체 울트라 ATA 66/100/133 IDE 리본 케이블 1개(선택 사양)
시리얼 ATA(SATA) 데이터 케이블 1개(선택 사양)
시리얼 ATA(SATA) HDD 전원 케이블 1개(선택 사양)
I/O 차폐 1개

1.2 설명서

플랫폼	- Micro ATX 폼 팩터: 9.6" X 7.2", 24.4 X 18.3 cm
CPU	- 지원되는 Socket AM2+/AM2 프로세서: AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core / Athlon X2 Dual-Core / Athlon 64 / Sempron 프로세서 (주의 1 참조) - AMD의 Cool 'n' Quiet™ 기술 지원 - FSB 1000 MHz(2.0 GT/s) - 언타이드 오버클러킹(Untied Overclocking) 기술 지원 (주의 2 참조) - 하이퍼 트랜스포트 기술 지원
칩셋	- NVIDIA® GeForce 7050 / nForce 630A MCP
메모리	- 듀얼 채널 메모리 기술 지원 (주의 3 참조) - DDR2 DIMM 슬롯 2개 - DDR2 1066/800/667/533 비-ECC, 언버퍼드 메모리를 지원 (주의 4 참조) - 최대 시스템 메모리 용량: 4GB (주의 5 참조)
확장 슬롯	- 1개의 PCI Express x16슬롯 - 1개의 PCI Express x1슬롯 - 2개의 PCI 슬롯
온보드 VGA	- 완벽한 NVIDIA® GeForce7 시리즈 (NV44) - DX9.0 VGA, Pixel Shader 3.0 - 최대 공유 메모리 256MB (주의 6 참조) - 더블 VGA 수출: DVI-D 와 D-Sub 포트 독립 디스플레이 컨트롤러를 지원 - DVI-D 포트의 HDCP기능을 지원 - 1080p Blu-ray (BD) / HD-DVD 재생을 지원 (주의 7 참조) - NVIDIA® PureVideo™ 기능
오디오	- 5.1CH Windows® Vista™ Premium 레벨 HD 오디오 (ALC662 오디오 코덱) - 칩 세트에 내장된 HDMI 오디오
랜	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211CL - 웨이크-온-랜 지원
후면판 I/O	I/O Panel - 1개 PS/2 마우스 포트 - 1개 PS/2 키보드 포트 - 1개의 VGA/D-Sub - 1개의 VGA/DVI-D (주의 8 참조) - 4개 디폴트 USB 2.0 포트 - 1개 LED(ACT/LINK LED 및 SPEED LED)가 있는 RJ-45 LAN 포트

한국어

34

ASRock **N68PV-GS** Motherboard

	- 오디오 잭: 라인 인 / 전방 스피커 / 마이크

온보드 헤더
및 커넥터
	- 4개의 Serial ATAII 3.0Gb/s 커넥터,. RAID (RAID 0,
	  RAID 1, RAID 0+1, RAID 5 및 JBOD) 기능 지원, NCQ,
	  AHCI 및 "핫 플러그" 기능지원 (주의 9 참조)
	- ATA133 IDE 커넥터 1개 (최고 2개의 IDE 장치 지원)
	- 플로피 포트 1개
	- COM 포트 헤더 1개
	- 프린트 포트 헤더 1개
	- CPU/새시 팬 커넥터
	- 24 핀 ATX 전원 헤더
	- 4핀 ATX 12V파워 콘넥터
	- 내부 오디오 콘넥터
	- 전면부 오디오 콘넥터
	- USB 2.0 헤더 2개 (4개의 추가 USB 2.0 포트를 지원하는 헤더
	  2 개) (주의 10 참조)

BIOS	- 4Mb AMI BIOS - AMI에 따른 바이오스 - "플러그 앤 플레이" 지원 - ACPI 1.1 웨이크-업 이벤트와의 호환 - 점퍼 프리 지원 - 점퍼 프리 지원 ; SMBIOS 2.3.1 지원 - Smart BIOS 지원
지원 CD	- 드라이버, 유틸리티, 안티 바이러스 소프트웨어 (트라이얼 버전)

특점및 특성	- ASRock OC 튜너 (주의 11 참조)
	- Intelligent Energy Saver (주의 12 참조)
	- 하이드브리 부스터:
	    - CPU 주파수의 단계적인 조절 (주의 13 참조)
	    - ASRock U-COP (주의 14 참조)
	    - B.F.G..(Boot Failure Guard)
	    - AM2 Boost: 메모리 성능을 최대 12.5%까지 끌어올리는
	  ASRock 특허 기술 (주의 15 참조)

하드웨어 모니터	- CPU 온도 감지 - 마더보드 온도 감지 - CPU 과열시 CPU 수명 보호를 위한 시스템 정지기능 - CPU 팬 회전 속도계:샤시(케이스) 팬 회전 속도계 - CPU 소음팬 - 전압 감시 기능 : +12V,+5V,+3.3V,Vcore
OS	- 마이크로 소프트 Windows® 2000/XP/XP 미디어 센터/XP 64 비트/Vista™/Vista™64-bit 와 호환
인증서	- FCC, CE

* 상세한 제품정보는 당사의 웹사이트를 방문할수있습니다. http://www.asrock.com

주의 !

1. 이 메인보드는 최대 95W 까지 CPU 를 지원합니다. CPU 지원 목록은 당사 웹사이트를 참조하십시오.
   ASRock 웹사이트 http://www.asrock.com

2. 이 마더보드는 언타이드 오버클러킹 기술을 지원합니다. 자세한 내용은 22 페이지의 "언타이드 오버클러킹 기술"을 읽으십시오.

3. 이 마더보드는 듀얼 채널 메모리 기술을 지원합니다. 듀얼 채널 메모리 기술을 구현하기 전에 올바른 설치를 위하여 13 쪽에 있는 메모리 모듈 설치 안내를 읽으십시오.

4. 1066MHz 메모리 속도의 지원 여부는 채택된 AM2+ CPU 에 따라 결정됩니다. 이 마더보드에 DDR2 1066 메모리 모듈을 채택하려는 경우 당사 웹사이트의 메모리 지원 목록에서 호환 가능한 메모리 모듈을 검색하십시오.
   ASRock 웹사이트 http://www.asrock.com

5. 운영 체제 한계 때문에 Windows® XP 및 Windows® Vista™에서 시스템 용도로 예약된 실제 메모리 크기는 4 GB 이하일 수 있습니다. 64 비트 CPU 와 Windows® XP 64 비트 및 Windows® Vista™ 64 비트의 경우 그런 한계가 없습니다.

6. 칩세트의 제조원이 정하였거나 그 변화를 한제하게 되는 최대 공유 메모리의 크기에 대하여, NVIDIA® 의 웹사이트를 방문하여 최신 정보를 받으십시요.

7. 본 마더보드를 지원하는 1080p Blu-ray (BD) / HD-DVD 재생은 적용되는 하드웨어의 구조를 요구합니다. 최소 하드웨어에 대한 요구와 당사 실험실에서 패스된 1080p Blu-ray (BD) / HD-DVD 필림에 대하여, 9 페이지와 10 페이지를 참고하십시요.

8. 본 마더보드에서 채용한 DVI-D 포트는 DVI/HDCP 와 HDMI 방식의 신호를 지원합니다. 당신은 HDMI 어댑터의 DVI 를 사용하여 DVI-D 포트를 HDMI 인터 페이스로 전환할 수 있습니다. HDMI 어댑터의 DVI 는 당사의 제품에 포함되지 않습니다. 더욱 많은 정보가 필요할 경우, 어댑터의 제조원에서 제공하는 데이터를 참조하십시요.

9. SATAII 하드 디스크를 SATAII 커넥터에 연결하기 전에, 지원 CD 의 "User Manual" (사용 설명서)27 페이지에 나와 있는 "SATAII Hard Disk Setup Guide" (SATAII 하드 디스크 설치 설명서) 에 따라 SATAII 하드 디스크 드라이브를 SATAII 모드로 조정하십시오. 또한 SATA 하드 디스크를 SATAII 커넥터에 직접 연결할 수 있습니다.

10. 마이크로소프트 윈도우 Vista™ 64 비트 /Vista™/XP 64 비트 /XP SP1; SP2/2000 SP4 상에서 USB 2.0의 구동을 위한 전원 관리 모드가 정상적으로.

11. 이것은 사용하기 쉬운 ASRock 오버클러킹 툴이며 당신으로하여금, 하드웨어 모니터 기능 으로 당신의 시스템을 감시하며 하드웨어 시설을 오버클러킹함으로서 Windows® 환경속에서 가장 우수한 시스템 작업을 실현합니다. 당사의 웹사이트를 방문하여 ASRock OC 튜너의 작업 절차를요해할수있습니다.
ASRock 웹사이트: http://www.asrock.com

12. 자체 개발한 고급 하드웨어 및 소프트웨어 디자인을 특징을 하는 Intelligent Energy Saver (인텔리전트 에너지 세이버) 는 혁신적인 기술로서 절전 효과가 타제품에 비해 월등합니다. CPU 코어가 유휴 상태일 때 전압 조정기가 출력 위상의 수를 줄여 효율을 높여줍니다. 즉, 탁월한 절전 효과와 함께 컴퓨터의 성능을 떨어뜨리지 않으면서 전원 효율을 높일 수 있습니다. Intelligent Energy Saver (인텔리전트 에너지 세이버) 기능을 사용하려면, 먼저 BIOS 셋업에서 쿨앤콰이어트 옵션을 활성화하십시오. Intelligent Energy Saver (인텔리전트 에너지 세이버) 의 사용법은 당사의 웹 사이트를 참조하십시오.
ASRock 웹 사이트: http://www.asrock.com

13. 본 마더보드는 직접 조절 기능을 제공하지만, 오버 클러킹을 하는 것은 권장되지 않습니다. 권장 CPU 버스 주파수가 아닌 주파수를 사용하면 시스템이 불안정해지거나 CPU 가 손상될 수 있습니다.

14. 시스템을 다시 시작하기 전에 메인보드 위의 CPU 팬이 정상적으로 동작 또는 장착되어 있는지 확인하여 주십시오. 고온 방지를 위하여 PC 시스템을 설치할 때 CPU와 방열판 사이에 그리스를 발라 주셔야 합니다.

15. 이 마더보드는 AM2 Boost 오버클로킹 기술을 지원합니다. BIOS 설정에서이 기능을 사용으로 설정하는 경우, 메모리 성능을 12.5% 까지 높일 수 있으나 효과는 채택한 AM2 CPU 에 따라 다릅니다. 이 기능을 사용으로 설정하면 칩셋 /CPU 기준 클록을 오버클로킹합니다. 그러나 모든 CPU/DRAM 구성에 대해 시스템 안정성을 보증할 수 없습니다. 기능을 사용으로 설정했을 때 시스템이 불안정한 경우, 이 기능이 현재 시스템에 적합치 않을 수 있습니다. 이 경우 이 기능을 사용 안 함으로 설정하여 시스템의 안정성을 유지하는 것이 좋습니다.

한국어

1.3 점퍼 셋팅

그림은 점퍼를 어떻게 셋업 하는지를 보여줍니다.
점퍼 캡이 핀 위에 있을 때, 점퍼는 "쇼트"입니다.
점퍼 캡이 핀 위에 없을 때 점퍼는 "오픈" 입니다.
그림은 3개의 핀 중 1-2번 핀이 "쇼트"임을
보여주는 것이며, 점퍼 캡이 이 두 핀 위에 있음을
보여주는 것입니다.

쇼트   오픈
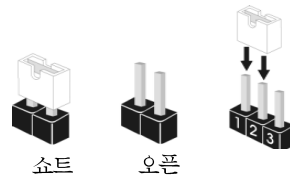
점퍼	세팅	
PS2_USB_PW1 (2페이지, 1번 항목 참조)	**1_2** +5V **2_3** +5VSB	PS/2 또는 USB를 깨어나게 하기 위해서는 2번과 3번 핀을 "쇼트" 하여야 합니다.

참고: +5VSB 선택할 경우 2암페어 정도 높은 전류 공급을 요구합니다.

CMOS 초기화
(CLRCMOS1, 3 핀 점퍼)
(2페이지, 14번 항목 참조)

1_2 기본 설정   **2_3** CMOS 삭제

참고: CLRCMOS1은 CMOS의 데이터를 삭제할 수 있게 합니다. CMOS의
데이터는 시스템 암호, 날자, 시간 및 시스템 설정 매개 변수와 같은 시스템 설정
정보를 포함합니다. 시스템 매개 변수를 삭제하고 기본 설정으로
초기화하려면 컴퓨터를 끄고 전원 코드를 뽑은 후 점퍼 캡을 사용하여
CLRCMOS1의 2번과 3번 핀을 5초간 단락시키십시오. CMOS를 초기화 한 뒤,
반드시 점퍼 캡을 제거하여야 합니다. 바이오스 업데이트를 마친 후 CMOS를 삭
제해야하는 경우 CMOS 삭제 동작 전에 시스템을 먼저 부팅했다가 종료해야 합니
다.

1.4 온보드 헤더 및 커넥터

⚠️ **주의!**
이 콘넥터는 점퍼가 아닙니다. 이 콘넥터 위에 점퍼 캡을 사용하지
마세요. 커넥터에 점퍼 캡을 설치하면 마더보드가 영구적으로 손상됩니
다!

콘넥터	그림	설명
FDD 콘넥터 (33핀 FLOPPY1) (2페이지, 19번 항목 참조)	PIN1 FLOPPY1	빨간색 줄무늬 쪽을 1 번 핀에

참고: 케이블의 빨간색 줄무늬가 있는 쪽을 커넥터의 1번 핀에 맞추어
연결하십시오.

한 국 어

IDE 콘넥터 1 (파란색)

(39 핀 IDE1, 2 페이지, 7 번 항목 참조)

IDE1
PIN1

파란색은 메인보드에
연결합니다

검정색은 IDE 디바이스에
연결합니다

80 도체 ATA 66/100/133 케이블

참고: 자세한 사항은 IDE 장치 벤더가 제공하는 사용 설명서를 참조하십시오.

|		
시리얼 ATAII 커넥터 (SATAII_1 (PORT 0): 2 페이지, 6 번 항목 참조) (SATAII_2 (PORT 1): 2 페이지, 5 번 항목 참조) (SATAII_3 (PORT 2): 2 페이지, 9 번 항목 참조) (SATAII_4 (PORT 3): 2 페이지, 8 번 항목 참조)	SATAII_1 (PORT 0) SATAII_2 (PORT 1) SATAII_3 (PORT 2) SATAII_4 (PORT 3)	4개의 직렬 ATA (SATAII) 커넥터가 내부 저장 장치용 SATA 또는 SATAII HDD를 지원합니다. 커넥터가 내부기억 장치용 SATAII 케이블을 지원합니다. 현재의 SATAII 인터페이스는 최고 3.0 Gb/s의 데이터 전송 속도를 지원합니다.
시리얼 ATA(SATA) 데이터 케이블 (선택 사양)		SATA 데이터 케이블의 어느 쪽이든 SATA / SATAII 하드 디스크나 마더보드의 SATAII 커넥터에 연결할 수 있습니다.
시리얼 ATA(SATA) 전원 케이블 (선택 사양)	SATA HDD 전원 커넥터에 연결 전원 공급장치에 연결	SATA 전원 케이블의 검은색 끝부분을 드라이브의 전원 커넥터에 연결하십시오. 그 다음에 SATA 전원 케이블의 흰색 끝을 전원 공급장치의 전원 커넥터에 연결합니다.
USB 2.0 헤더 (9 핀 USB6_7) (2 페이지, 16 번 항목 참조) (9 핀 USB4_5) (2 페이지, 12 번 항목 참조)	USB_PWR P-7 P+7 GND DUMMY GND P+6 P-6 USB_PWR USB_PWR P-5 P+5 GND DUMMY GND P+4 P-4 USB_PWR	본 머더보드에는 I/O 패널에 있는 4개의 기본 USB 2.0 포트 외에도 USB 2.0 헤더가 2개 있습니다. 각각의 USB 2.0 헤더는 2개의 USB 2.0 포트를 지원할 수 있습니다.
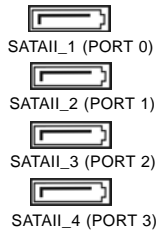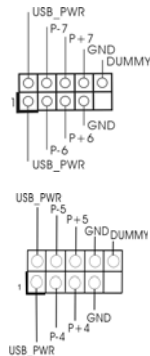
한국어

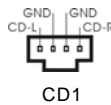| 프린트 포트 헤더		이것은 프린터 장치를 편리하

프린트 포트 헤더
(25핀 LPT1)
(2페이지, 28번 항목 참조)
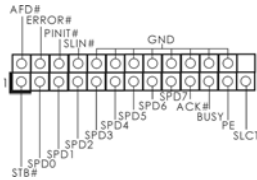
이것은 프린터 장치를 편리하게 연결할 수있도록 해주는 프린트 포트 케이블용 인터페이스입니다.
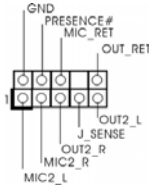
내부 오디오 콘넥터
(4핀 CD1)
(CD1: 2페이지, 21번 항목 참조)

이 콘넥터는 CD-ROM, DVD-ROM, TV 튜너, 또는 MPEG 카드의 사운드 소스로부터 스테레오 입력을 받기 위한 것입니다.

전면부 오디오 콘넥터
(9핀 HD_AUDIO1)
(2페이지, 20번 항목 참조)

이 콘넥터는 오디오 장치를 편리하게 조절하고 연결할 수 있는 전면 오디오 인터페이스입니다.

1. High Definition Audio(고음질 오디오)는 잭 센스 기능을 지원하나, 제대로작동하려 면 섀시의 패널 와이어가 HAD 를 지원해야 합니다. 이 설명서 및 섀시 설명서의지침 을 따라 시스템을 설치하십시오.
2. AC' 97 오디오 패널을 사용하는 경우, 이를 아래와 같이 프런트 패널 의오디오헤 더에 설치하십시 오.
   A. Mic_IN (MIC)을 MIC2_L 에 연결합니다.
   B. Audio_R (RIN)을 OUT2_R 에 연결하고, Audio_L (LIN)을 OUT2_L 에 연결합 니다.
   C. Ground (GND)을 Ground (GND) 에 연결합니다.
   D. MIC_RET 및 OUT_RET 는 HD 오디오 패널 전용입니다. 이들을 AC' 97 오디오 패널에 연결 하지 않아도 됩니다.
   E. BIOS 설정 유틸리티를 선택합니다. 고급 설정을 선택한 다음, 칩셋구성을 선택합니다. 프론트 패널 제어를 [자동]에서 [사용]으로 설정합니다.
   F. Windows® 시스템을 시작합니다. 우측 하단의 작업 표시줄에 있는 아이콘을 클릭하여 Realtek HD Audio Manager 를 시작합니다.
   Windows® 2000 / XP / XP 64 비트 작업시스템에 대하여:
   "오디오 입출력" 을 클릭하고, "커넥터 설정" 을 선택하고, "프론트패널 잭 감지 사용 안함" 을 선택한 다음, "확인" 을 클릭하여 변경 내용을저장합니다.

한 국 어

ASRock N68PV-GS Motherboard

Windows® Vista™ / Vista™ 64 비트 작업시스템에 대하여:
우상부의 "폴더"   아이콘을 클릭하여 "프론트 면
판삽입구 검측기능을 잠금"을 선택한후 "확인"을 클릭하
여 변경을 저장합니다.

G. 앞면 마이크 활성화
Windows® 2000 / XP / XP 64 비트 OS 의 경우:
"앞면 마이크"를 기본 녹음 장치로 선택하십시오.
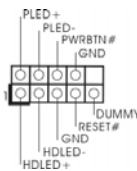앞면 마이크를 통해 자기 목소리를 듣고 싶으면 "재생" 부분의
"앞면 마이크" 에서 "음소거" 아이콘을 선택하십시오.
Windows® Vista™ / Vista™ 64 비트 OS 의 경우:
Realtek 제어판의 "앞면 마이크" 탭으로 이동합니다. "기본 장
치설정" 을 클릭하여 앞면 마이크를 기본 녹음 장치로 설정합니
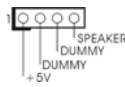다.

시스템 콘넥터 (9 핀 PANEL1) (2 페이지, 17 번 항목 참조)	PLED+ PLED- PWRBTN# GND DUMMY RESET# GND HDLED- HDLED+	이 콘넥터는 시스템 전면 패널 기능을 지원하기 위한 것입니다.
새시 스피커 헤더 (4 핀 SPEAKER 1) (2 페이지, 15 번 항목 참조)	SPEAKER DUMMY DUMMY +5V	새시 스피커를 이 헤더에 연결하십시오.
새시 팬 커넥터 (3 핀 CHA_FAN1) (2 페이지, 13 번 항목 참조)	GND +12V CHA_FAN_SPEED	새시 팬 케이블을 이 커넥터에 연결하고 흑색 선을 접지 핀에 맞추십시오.
CPU 팬 커넥터 (4 핀 CPU_FAN1) (2 페이지, 2 번 항목 참조)	FAN_SPEED_CONTROL 4 CPU_FAN_SPEED 3 +12V 2 GND 1	CPU 팬 케이블을 이 커넥터에 연결하고 흑색 선을 접지 핀에 맞추십시오.
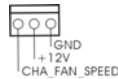
본 머더보드가 4 핀 CPU 팬(저소음 팬) 지원을 제공하기는 하지만 팬 속도 제어
기능없이도 3 핀 CPU 팬을 성공적으로 작동할 수 있습니다. 본 머더보드의
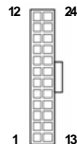CPU 팬 커넥터에 3 핀 CPU 팬을 연결하려면 1-3 번 핀에 연결하십시오.

1-3 번 핀에 연결됨 ←

3 핀 팬 설치

ATX 전원 헤더 (24 핀 ATXPWR1) (2 페이지, 4 번 항목 참조)	12 24 1 13	ATX 전원 공급기를 이 헤더에 연결하십시오.

한국어

이 마더보드는 24 핀 ATX 전원 커넥터를 제공하지만, 종래의 20 핀 ATX 전원공급장치를 사용해도 작동이 가능합니다. 20 핀 ATX 전원 공급장치를 사용하려면, Pin 1 과 Pin 13 으로 전원공급장치를 연결하십시오.
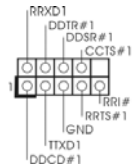
20 핀 ATX 전원 공급장치 설치

ATX 12V파워 콘넥터	ATX 12V 플러그가 달린
(4핀 ATX12V1)	전원공급장치를 이 커넥터에
(2페이지, 25 번 항목 참조)	연결해야 충분한 전력을
	공급할 수 있습니다. 그러지
	않을 경우 전원을 켤 수
	없습니다.

시리얼포트 컨넥터   이 콘넥터는 시리얼 포트

(9 핀 COM1)   모듈을 지원합니다.

(2 페이지, 18 번 항목 참조)

RRXD1
DDTR#1
DDSR#1
CCTS#1
RRI#1
RRTS#1
GND
TTXD1
DDCD#1

한국어

2. 시스템 바이오스 정보

메인보드의 플래쉬 메모리에는 바이오스 셋업 유틸리티가 저장되어 있습니다.
컴퓨터를 사용하실 때, "자가진단 테스트"(POST) 가 실시되는 동안 <F2>키를 눌러 바이오스 셋업으로 들어가세요; 만일 그렇게 하지 않으면 POST는 테스트 루틴을 계속하여 실행할 것입니다. 만일 POST 이후 바이오스 셋업을 하기 원하신다면,<Ctl>+<Alt>+<Delete>키를 누르거나, 또는 시스템 본체의 리셋 버튼을 눌러 시스템을 재 시작하여 주시기 바랍니다. 바이오스 셋업 프로그램은 사용하기 편하도록 디자인되어 있습니다. 각 항목은 다양한 서브 메뉴 표가 올라오며 미리 정해진 값 중에서 선택할 수 있도록 되어 있습니다. 바이오스 셋업에 대한 보다 상세한 정보를 원하신다면 보조 CD안의 포함된 사용자 매뉴얼(PDF 파일)을 따라 주시기 바랍니다.

3. 소프트웨어 지원 CD 정보

이 메인보드는 여러 가지 마이크로소프트 윈도우 운영 체계를 지원합니다 :
2000/XP/XP 미디어 센터/XP 64 비트/Vista™/Vista™ 64-bit. 메인보드에 필요한 드라이버와 사용자 편의를 위해 제공되는 보조 CD는 메인보드 의 기능을 향상시켜 줄 것입니다. 보조 CD를 사용하여 시작하시려면, CD-ROM 드라이브에 CD를 넣어주시기바랍니다. 만일 고객님의 컴퓨터가 "AUTORUN" 이 가능하다면 자동으로 메인 메뉴를 모니터에 디스플레이 시켜 줄 것입니다. 만일 자동으로 메인 메뉴가 나타나지 않는다면, 보조 CD의 디스플레이 메뉴 안에 있는 BIN 폴더
ASSETUP.EXE 파일을 더블 클릭하여 주시기 바랍니다.
(D: \BIN\ASSETUP.EXE, D:는 CD-ROM 드라이브)

한국어