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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.

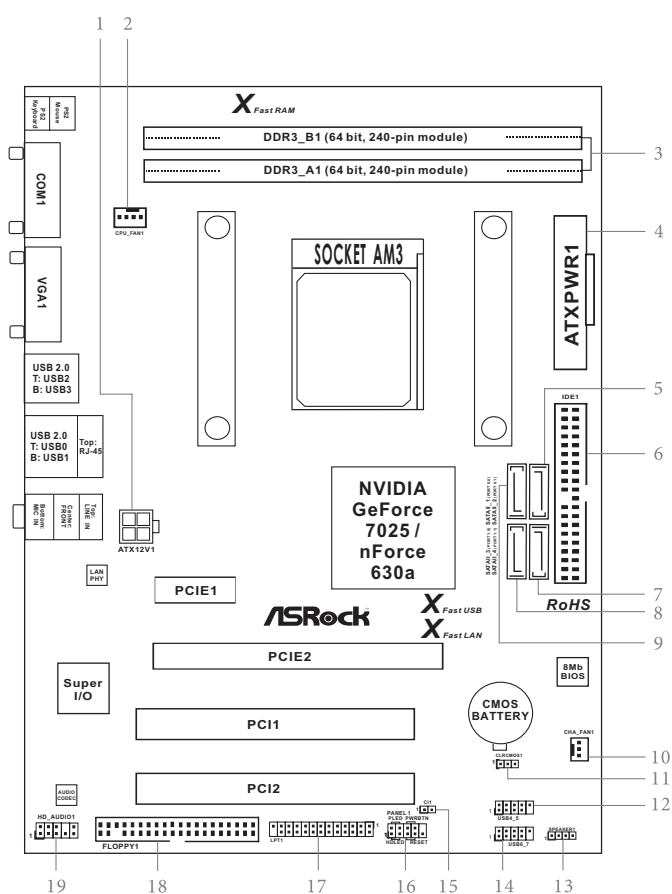
"Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate"

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

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English

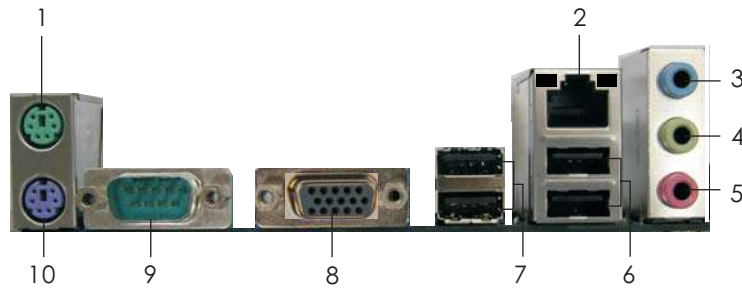
Motherboard Layout (N68-GS4 FX / N68-S4 FX)



English


- | | | | |
|---|---|----|--------------------------------------|
| 1 | ATX 12V Power Connector (ATX12V1) | 10 | Chassis Fan Connector (CHA_FAN1) |
| 2 | CPU Fan Connector (CPU_FAN1) | 11 | Clear CMOS Jumper (CLRCMOS1) |
| 3 | 2 x 240-pin DDR3 DIMM Slots
(Dual Channel: DDR3_A1, DDR3_B1) | 12 | USB 2.0 Header (USB4_5) |
| 4 | ATX Power Connector (ATXPWR1) | 13 | Chassis Speaker Header (SPEAKER1) |
| 5 | SATA2 Connector (SATAII_2 (PORT 0.1)) | 14 | USB 2.0 Header (USB6_7) |
| 6 | Primary IDE Connector (IDE1) | 15 | Chassis Intrusion Header (CI1) |
| 7 | SATA2 Connector (SATAII_4 (PORT 1.1)) | 16 | System Panel Header (PANEL1) |
| 8 | SATA2 Connector (SATAII_3 (PORT 1.0)) | 17 | Print Port Header (LPT1) |
| 9 | SATA2 Connector (SATAII_1 (PORT 0.0)) | 18 | Floppy Connector (FLOPPY1) |
| | | 19 | Front Panel Audio Header (HD_AUDIO1) |

I/O Panel (N68-GS4 FX)




- | | |
|---------------------------|--------------------------------|
| 1 PS/2 Mouse Port (Green) | 6 USB 2.0 Ports (USB01) |
| * 2 RJ-45 Port | 7 USB 2.0 Ports (USB23) |
| 3 Line In (Light Blue) | 8 D-Sub Port |
| 4 Front Speaker (Lime) | 9 COM 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.

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

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

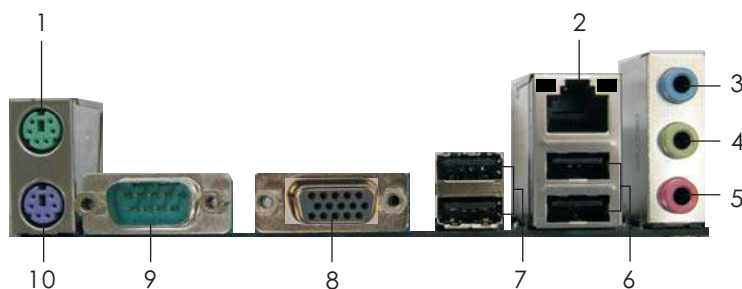
"4CH" and then you are allowed to select "Realtek HDA Primary output" to use Rear Speaker and Front Speaker, or select "Realtek HDA Audio 2nd output" to use front panel audio. Then reboot your system.

For Windows® 8 / 7 / 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

I/O Panel (N68-S4 FX)



- | | |
|---------------------------|--------------------------------|
| 1 PS/2 Mouse Port (Green) | 6 USB 2.0 Ports (USB01) |
| * 2 RJ-45 Port | 7 USB 2.0 Ports (USB23) |
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
* 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	

LAN Port

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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® 8 / 7 / Vista™:

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1. Introduction

Thank you for purchasing ASRock **N68-GS4 FX / N68-S4 FX** 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 **N68-GS4 FX / N68-S4 FX** Motherboard (Micro ATX Form Factor)
One ASRock **N68-GS4 FX / N68-S4 FX** Quick Installation Guide
One ASRock **N68-GS4 FX / N68-S4 FX** Support CD
Two Serial ATA (SATA) Data Cables (Optional)
One I/O Panel Shield

1.2 Specifications

Platform	- Micro ATX Form Factor
A-Style	- Home Cloud (N68-GS4 FX)
CPU	<ul style="list-style-type: none"> - Support for Socket AM3+ processors - Support for AM3 processors: AMD Phenom™ II X6 / X4 / X3 / X2 (except 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processors (see CAUTION 1) - Supports 8-Core CPU - Supports UCC feature (Unlock CPU Core) (see CAUTION 2) - Supports AMD's Cool 'n' Quiet™ Technology - FSB 1000 MHz (2.0 GT/s) - Supports Untied Overclocking Technology - Supports Hyper-Transport Technology
Chipset	- NVIDIA® GeForce 7025 / nForce 630a
Memory	<ul style="list-style-type: none"> - Dual Channel DDR3 Memory Technology - 2 x DDR3 DIMM slots - Support DDR3 1866/1600/1333/1066 non-ECC, un-buffered memory (see CAUTION 3) - Max. capacity of system memory: 16GB (see CAUTION 4)
Expansion Slot	<ul style="list-style-type: none"> - 1 x PCI Express x16 slot - 1 x PCI Express x1 slot - 2 x PCI slots
Graphics	<ul style="list-style-type: none"> - Integrated NVIDIA® GeForce 7025 graphics - DX9.0 VGA, Pixel Shader 3.0 - Max. shared memory 256MB - Supports D-Sub with max. resolution up to 1920x1440 @ 60Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	<p>N68-GS4 FX:</p> <ul style="list-style-type: none"> - Qualcomm® Atheros® AR8171, speed 10/100/1000 Mb/s - Supports Qualcomm® Atheros® Security Wake On Internet Technology - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports PXE <p>N68-S4 FX:</p> <ul style="list-style-type: none"> - Atheros® AR8152, speed 10/100 Mb/s - Supports Wake-On-LAN - Supports PXE

Rear Panel I/O	I/O Panel - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Serial Port: COM1 - 1 x VGA Port - 4 x 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
Storage	- 4 x SATA2 3.0Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ and Hot Plug
Connector	- 1 x ATA133 IDE connector (supports 2 x IDE devices) - 1 x Floppy connector - 1 x Print port header - 1 x Chassis intrusion header - 1 x CPU Fan connector (4-pin) - 1 x Chassis Fan connector (3-pin) - 1 x 24 pin ATX power connector - 1 x 4 pin 12V power connector - 1 x Front panel audio header - 2 x USB 2.0 headers (support 4 USB 2.0 ports)
BIOS Feature	- 8Mb AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliant Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - CPU, VCCM Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial)
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU Fan Tachometer - Chassis Fan Tachometer - CPU Quiet Fan - CASE OPEN detection - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / Vista™ 32-bit / Vista™ 64-bit / XP 32-bit / XP 64-bit (see CAUTION 5)
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)

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

English

WARNING

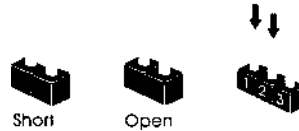
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using the third-party overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices 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. ASRock UCC (Unlock CPU Core) feature simplifies AMD CPU activation. As long as a simple switch of the BIOS option "ASRock UCC", you can unlock the extra CPU core to enjoy an instant performance boost. When UCC feature is enabled, the dual-core or triple-core CPU will boost to the quad-core CPU, and some CPU, including quad-core CPU, can also increase L3 cache size up to 6MB, which means you can enjoy the upgrade CPU performance with a better price. Please be noted that UCC feature is supported with AM3/AM3+ CPU only, and in addition, not every AM3/AM3+ CPU can support this function because some CPU's hidden core may be malfunctioned.
3. Whether 1866/1600MHz memory speed is supported depends on the AM3/AM3+ CPU you adopt. If you want to adopt DDR3 1866/1600 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>
4. Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 8 / 7 / Vista™ / XP. For Windows® OS with 64-bit CPU, there is no such limitation.
5. This motherboard does not support RAID mode under Windows® 8.1 32-bit / 8.1 64-bit.

1.3 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.



Jumper	Setting						
Clear CMOS Jumper (CLRCMOS1) (see p.2, No. 11)	<table border="0"><tr><td>1_2</td><td>2_3</td></tr><tr><td></td><td></td></tr><tr><td>Default</td><td>Clear CMOS</td></tr></table>	1_2	2_3			Default	Clear CMOS
1_2	2_3						
Default	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.

1.4 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. 18)



↑
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

(39-pin IDE1, see p.2 No. 6)



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 ATA2 Connectors

(SATAII_1 (PORT 0.0):

see p.2, No. 9)

(SATAII_2 (PORT 0.1):

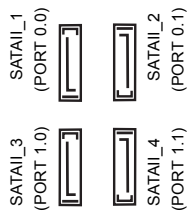
see p.2, No. 5)

(SATAII_3 (PORT 1.0):

see p.2, No. 8)

(SATAII_4 (PORT 1.1):

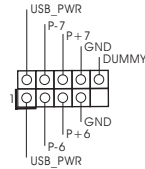
see p.2, No. 7)



These four Serial ATA2 (SATA2) connectors support SATA2 or SATA hard disk for internal storage devices. The current SATA2 interface allows up to 3.0 Gb/s data transfer rate.

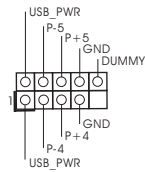
USB 2.0 Headers

(9-pin USB6_7)
(see p.2 No. 14)



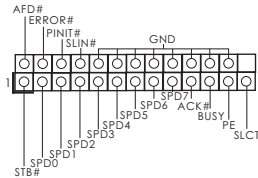
Besides four default USB 2.0 ports on the I/O panel, there are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

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



Print Port Header

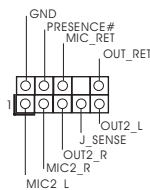
(25-pin LPT1)
(see p.2 No. 17)



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

Front Panel Audio Header

(9-pin HD_AUDIO1)
(see p.2, No. 19)



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

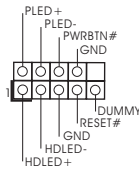


1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below:
 - 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

System Panel Header

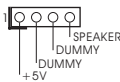
(9-pin PANEL1)
(see p.2 No. 16)



This header accommodates several system front panel functions.

Chassis Speaker Header

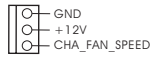
(4-pin SPEAKER 1)
(see p.2 No. 13)



Please connect the chassis speaker to this header.

Chassis Fan Connector

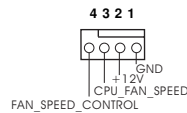
(3-pin CHA_FAN1)
(see p.2 No. 10)



Please connect a chassis fan cable to this connector and match the black wire to the ground pin.

CPU Fan Connector

(4-pin CPU_FAN1)
(see p.2 No. 2)



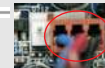
Please connect the CPU fan cable to this connector and match the black wire to the ground pin.



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.

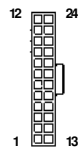
Pin 1-3 Connected

3-Pin Fan Installation



ATX Power Connector

(24-pin ATXPWR1)
(see p.2 No. 4)

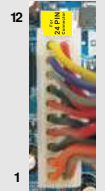


Please connect an ATX power supply to this connector.



Though this motherboard provides 24-pin ATX power connector, 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



ATX 12V Power Connector
(4-pin ATX12V1)
(see p.2 No. 1)



Please note that it is necessary to connect a power supply with ATX 12V plug to this connector. Failing to do so will cause power up failure.

Chassis Intrusion Header
(2-pin CI1)
(see p.2 No. 15)



This motherboard supports CASE OPEN detection feature that detects if the chassis cover has been removed. This feature requires a chassis with chassis intrusion detection design.

2. BIOS Information

The Flash Memory on the motherboard stores BIOS Setup Utility. When you start up the computer, please press <F2> or 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.

3. Software Support CD information

This motherboard supports various Microsoft® Windows® operating systems: 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / Vista™ 32-bit / Vista™ 64-bit / XP 32-bit / XP 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.

Spezifikationen

Plattform	- MicroATX-Formfaktor
A-Stil	- Heim-Cloud (N68-GS4 FX)
CPU	<ul style="list-style-type: none"> - Unterstützung von Socket AM3+-Prozessoren - Unterstützung von Socket AM3-Prozessoren: AMD Phenom™ II X6 / X4 / X3 / X2 (außer 920 / 940) / Athlon X4 / X3 / X2 / Sempron-Prozessor - Acht-Kern-CPU-bereit - Unterstützt UCC (Unlock CPU Core) - Unterstützt Cool 'n' Quiet™-Technologie von AMD - FSB 1000 MHz (2.0 GT/s) - Unterstützt Untied-Übertaktungstechnologie - Unterstützt Hyper-Transport-Technologie
Chipsatz	- NVIDIA® GeForce 7025 / nForce 630a
Speicher	<ul style="list-style-type: none"> - Unterstützung von Dual-Kanal-Speichertechnologie - 2 x Steckplätze für DDR3 - Unterstützt DDR3 1866/1600/1333/1066 non-ECC, ungepufferter Speicher - Max. Kapazität des Systemspeichers: 16GB
Erweiterungssteckplätze	<ul style="list-style-type: none"> - 1 x PCI Express x16-Steckplätze - 1 x PCI Express x1-Steckplätze - 2 x PCI -Steckplätze
Onboard-VGA	<ul style="list-style-type: none"> - Integrierter NVIDIA® GeForce 7025 Grafikkchip - DX9.0 VGA, Pixel Shader 3.0 - Maximal gemeinsam genutzter Speicher 256 MB - Unterstützt D-Sub mit einer maximalen Auflösung von 1920 x 1440 bei 60 Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	<p>N68-GS4 FX:</p> <ul style="list-style-type: none"> - Qualcomm® Atheros® AR8171, speed 10/100/1000 Mb/s - Unterstützt Qualcomm® Atheros® Security Wake On Internet-Technologie - Unterstützt Wake-On-LAN - Unterstützt energieeffizientes Ethernet 802.3az - Unterstützt PXE <p>N68-S4 FX:</p> <ul style="list-style-type: none"> - Atheros® AR8152, speed 10/100 Mb/s - Unterstützt Wake-On-LAN - Unterstützt PXE

Deutsch

E/A-Anschlüsse an der Rückseite	I/O Panel - 1 x PS/2-Mausanschluss - 1 x PS/2-Tastaturanschluss - 1 x Serieller port: COM1 - 1 x VGA port - 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
Speicher	- 4 x SATA2-Anschlüsse, unterstützt bis 3.0 Gb/s Datenübertragungsrate, unterstützt RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ und "Hot Plug" Funktionen
Anschlüsse	- 1 x ATA133 IDE-Anschlüsse (Unterstützt bis 2 IDE-Geräte) - 1 x FDD-Anschlüsse - 1 x Druckerport-Anschlussleiste - 1 x Verteiler für Gehäuseeindringversuche - 1 x CPU-Lüfteranschluss (4-polig) - 1 x Gehäuse-Lüfteranschluss (3-polig) - 1 x 24-pin ATX-Netz-Header - 1 x 4-pin anschluss für 12V-ATX-Netzteil - 1 x Anschluss für Audio auf der Gehäusevorderseite - 2 x USB 2.0-Anschlüsse (Unterstützung 4 zusätzlicher USB 2.0-Anschlüsse)
BIOS	- 8Mb AMI BIOS - AMI legal BIOS mit Unterstützung für "Plug and Play" - ACPI 1.1-Weckfunktionen - JumperFree-Modus - SMBIOS 2.3.1 - CPU, VCCM Stromspannung Multianpassung
Support-CD	- Pilotes, utilitaires, logiciel anti-virus (version d'évaluation), Google Chrome Browser und Toolbar, Start8 (30-Tage-Testversion)
Hardware Monitor	- CPU-Temperatursensor - Motherboardtemperaturerkennung - Drehzahlmessung für CPU-Lüfter - Drehzahlmessung für Gehäuselüfter - CPU-Lüftergeräuschdämpfung - GEHAUSE OFFEN-Erkennung - Spannungsüberwachung: +12V, +5V, +3.3V, Vcore

Betriebssysteme	- Unterstützt Microsoft® Windows® 8.1 32-Bit / 8.1 64-Bit / 8 32-Bit / 8 64-Bit / 7 32-Bit / 7 64-Bit / Vista™ 32-Bit / Vista™ 64-Bit / XP 32-Bit / XP 64-Bit
Zertifizierungen	- FCC, CE, WHQL - Gemäß Ökodesign-Richtlinie (ErP/EuP) (Stromversorgung gemäß Ökodesign-Richtlinie (ErP/EuP) erforderlich)

* Für die ausführliche Produktinformation, besuchen Sie bitte unsere Website:
<http://www.asrock.com>

Deutsch

Spécifications

Format	- Facteur de forme Micro ATX
A-Style	- Home Cloud (N68-GS4 FX)
CPU	<ul style="list-style-type: none"> - Prise en charge des processeurs sur socket AM3+ - Prise en charge des processeurs sur socket AM3: Processeur Phenom™ II X6 / X4 / X3 / X2 (sauf 920 / 940) / Athlon II X4 / X3 / X2 / Sempron d'AMD - Prêt pour processeurs Huit-Core - Supporte UCC (Unlock CPU Core) - Supporte la technologie Cool 'n' Quiet™ d'AMD - FSB 1000 MHz (2.0 GT/s) - Prend en charge la technologie Untied Overclocking - Prise en charge de la technologie Hyper Transport
Chipsets	- NVIDIA® GeForce 7025 / nForce 630a
Mémoire	<ul style="list-style-type: none"> - Compatible avec la Technologie de Mémoire à Canal Double - 2 x slots DIMM DDR3 - Supporte DDR3 1866/1600/1333/1066 non-ECC, sans amortissement mémoire - Capacité maxi de mémoire système: 16GB
Slot d'extension	<ul style="list-style-type: none"> - 1 x slot PCI Express x16 - 1 x slot PCI Express x1 - 2 x slots PCI
VGA sur carte	<ul style="list-style-type: none"> - NVIDIA® graphique GeForce 7025 intégré - VGA DX9.0, nuanceur de pixels 3.0 - mémoire partagée max 256MB - Prend en charge le D-Sub avec une résolution maximale jusqu'à 1920x1440 @ 60Hz
Audio	- 5.1 Son haute définition de CH (codec audio Realtek ALC662)
LAN	<p>N68-GS4 FX:</p> <ul style="list-style-type: none"> - Qualcomm® Atheros® AR8171, vitesse 10/100/1000 Mb/s - Prend en charge la technologie Qualcomm® Atheros® Security Wake On sur Internet - Support du Wake-On-LAN - Prend en charge la fonction d'économie d'énergie Ethernet 802.3az - Support du PXE <p>N68-S4 FX:</p> <ul style="list-style-type: none"> - Atheros® AR8152, vitesse 10/100 Mb/s - Support du Wake-On-LAN - Support du PXE

Panneau arrière E/S	I/O Panel - 1 x port souris PS/2 - 1 x port clavier PS/2 - 1 x port série: COM1 - 1 x port VGA - 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
Stockage	- 4 x connecteurs SATA2, 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 et "Hot-Plug" (Connexion à chaud)
Connecteurs	- 1 x ATA133 IDE connecteurs (prend en charge jusqu'à 2 périphériques IDE) - 1 x Port Disquette - 1 x embase de port d'impression - 1 x Embase d'intrusion châssis - 1 x Connecteur pour ventilateur de CPU (br. 4) - 1 x Connecteur pour ventilateur de Châssis (br. 3) - 1 x br. 24 connecteur d'alimentation ATX - 1 x br. 4 connecteur d'alimentation 12V ATX - 1 x Connecteur audio panneau avant - 2 x En-tête USB 2.0 (prendre en charge 4 ports USB 2.0 supplémentaires)
BIOS	- 8Mb BIOS AMI - BIOS AMI - Support du "Plug and Play" - Compatible pour événements de réveil ACPI 1.1 - Gestion jumperless - Support SMBIOS 2.3.1 - CPU, VCCM Tension Multi-ajustement
CD d'assistance	- Pilotes, utilitaires, logiciel anti-virus (version d'évaluation), Google Chrome Browser et Toolbar, Start8 (30 jours d'évaluation)
Surveillance système	- Détection de la température de l'UC - Mesure de température de la carte mère - Tachéomètre ventilateur CPU - Tachéomètre ventilateur châssis - Ventilateur silencieux d'unité centrale - Détection d'OUVERTURE DE BOITIER - Monitoring de la tension: +12V, +5V, +3.3V, Vcore

OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / Vista™ 32-bit / Vista™ 64-bit / XP 32-bit / XP 64-bit
Certifications	- FCC, CE, WHQL - Prêt pour ErP/EuP (alimentation Prêt pour ErP/EuP requise)

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

Specifiche

Piattaforma	- Micro ATX Form Factor
Stile superiore	- Home Cloud (N68-GS4 FX)
Processore	- Supporto di processori Socket AM3+ - Supporto di processori Socket AM3: AMD Phenom™ II X6 / X4 / X3 / X2 (fatta eccezione per 920 / 940) / Athlon II X4 / X3 / X2 / Sempron - CPU Otto-Core Ready - Supporto UCC (Unlock CPU Core) - Supporto tecnologia AMD Cool 'n' Quiet™ - FSB 1000 MHz (2.0 GT/s) - Supporta la tecnologia overclocking "slegata" - Supporta la tecnologia Hyper-Transport
Chipset	- NVIDIA® GeForce 7025 / nForce 630a
Memoria	- Supporto tecnologia Dual Channel Memory - 2 x slot DDR3 DIMM - Supporto DDR3 1866/1600/1333/1066 non-ECC, memoria senza buffer - Capacità massima della memoria di sistema: 16GB
Slot di espansione	- 1 x slot PCI Express x16 - 1 x slot PCI Express x1 - 2 x slot PCI
VGA su scheda	- Scheda NVIDIA® GeForce 7025 grafica integrata - VGA DX9.0, Pixel Shader 3.0 - Memoria massima condivisa 256MB - Supporta D-Sub con risoluzione massima fino a 1920x1440 @ 60Hz
Audio	- 5.1 Audio HD CH (Realtek ALC662 Audio Codec)
LAN	N68-GS4 FX: - Qualcomm® Atheros® AR8171, velocità 10/100/1000 Mb/s - Supporta la tecnologia Qualcomm® Atheros® Security Wake On Internet - Supporta Wake-On-LAN - Supporta Energy Efficient Ethernet 802.3az - Supporta PXE N68-S4 FX: - Atheros® AR8152, velocità 10/100 Mb/s - Supporta Wake-On-LAN - Supporta PXE
Pannello posteriore I/O	I/O Panel - 1 x Porta PS/2 per mouse

	<ul style="list-style-type: none"> - 1 x Porta PS/2 per tastiera - 1 x Porta COM - 1 x Porta VGA - 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
Archiviazione	- 4 x connettori SATA2 3.0Go/s, sopporta RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ e "Collegamento a caldo"
Connettori	<ul style="list-style-type: none"> - 1 x connettori ATA133 IDE (supporta fino a 2 dispositivi IDE) - 1 x porta Floppy - 1 x Collettore porta stampante - 1 x header di intrusione dello chassis - 1 x Connettore ventolina CPU (4-pin) - 1 x Connettore ventolina telaio (3-pin) - 1 x 24-pin collettore alimentazione ATX - 1 x 4-pin connettore ATX 12V - 1 x Connettore audio sul pannello frontale - 2 x Collettore USB 2.0 (supporta 4 porte USB 2.0)
BIOS	<ul style="list-style-type: none"> - 8Mb AMI BIOS - Supporto AMI legal BIOS - Supporta "Plug and Play" - Compatibile con ACPI 1.1 wake up events - Supporta jumperfree - Supporta SMBIOS 2.3.1 - Regolazione multi-voltaggio CPU, VCCM
CD di supporto	- Driver, Utilità, Software AntiVirus (versione di prova), Google Chrome Browser e Toolbar, Start8 (30 giorni di prova)
Monitoraggio Hardware	<ul style="list-style-type: none"> - 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 - Ventola CPU silenziosa - Rilevamento CASE APERTO - Voltaggio: +12V, +5V, +3.3V, Vcore
Compatibilità SO	- Microsoft® Windows® 8.1 32 bit / 8.1 64 bit / 8 32 bit / 8 64 bit / 7 32 bit / 7 64 bit / Vista™ 32 bit / Vista™ 64 bit / XP 32 bit / XP 64 bit
Certificazioni	<ul style="list-style-type: none"> - FCC, CE, WHQL - Predisposto ErP/EuP (è necessaria l'alimentazione predisposta per il sistema ErP/EuP)

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

Especificación

Plataforma	- Factor forma Micro ATX
A-Style	- Home Cloud (N68-GS4 FX)
Procesador	<ul style="list-style-type: none"> - Compatibilidad con procesadores con conector AM3+ - Compatibilidad con procesadores con conector AM3: procesador AMD Phenom™ II X6 / X4 / X3 / X2 (excepto 920 / 940) / Athlon II X4 / X3 / X2 / Sempron - Compatible con CPU de ocho núcleo - Con soporte UCC (Unlock CPU Core) - Con soporte para tecnología Cool 'n' Quiet™ de AMD - FSB 1000 MHz (2.0 GT/s) - Admite tecnología de aumento de velocidad liberada - Soporta Tecnología de Hiper-Transporte
Chipset	- NVIDIA® GeForce 7025 / nForce 630a
Memoria	<ul style="list-style-type: none"> - Soporte de Tecnología de Memoria de Doble Canal - 2 x DDR3 DIMM slots - Apoya DDR3 1866/1600/1333/1066 non-ECC, memoria de un-buffered - Máxima capacidad de la memoria del sistema: 16GB
Ranuras de Expansión	<ul style="list-style-type: none"> - 1 x ranura PCI Express x16 - 1 x ranuras PCI Express x1 - 2 x ranuras PCI
VGA OnBoard	<ul style="list-style-type: none"> - Tarjeta gráfica integrada GeForce 7025 de NVIDIA® - VGA DX9.0, Sombreador de Píxeles 3.0 - 256MB de Memoria máxima compartida - Admite D-Sub con una resolución máxima de 1920x1440 a 60 Hz
Audio	- Sonido HD de 5.1 Canales (Código de sonido Realtek ALC662)
LAN	<p>N68-GS4 FX:</p> <ul style="list-style-type: none"> - Qualcomm® Atheros® AR8171, velocidad 10/100/1000 Mb/s - Compatible con la Tecnología de seguridad en internet Wake On Qualcomm® Atheros® - Soporta Wake-On-LAN - Compatible con Ethernet de consumo eficiente de energía 802.3az - Soporta PXE <p>N68-S4 FX:</p> <ul style="list-style-type: none"> - Atheros® AR8152, velocidad 10/100 Mb/s - Soporta Wake-On-LAN - Soporta PXE

Español

Entrada/Salida de Panel Trasero	<p>I/O Panel</p> <ul style="list-style-type: none"> - 1 x puerto de ratón PS/2 - 1 x puerto de teclado PS/2 - 1 x puerto serial: COM1 - 1 x puerto VGA - 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
Almacenamiento	<ul style="list-style-type: none"> - 4 x conexiones SATA2, 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 y "Conexión en caliente"
Conectores	<ul style="list-style-type: none"> - 1 x ATA133 conexiones IDE (admite hasta 2 dispositivos IDE) - 1 x puerto Floppy - 1 x cabecera de puerto de impresora - 1 x Conector de detección de intrusión en el chasis - 1 x Conector del ventilador del CPU (4-pin) - 1 x Conector del ventilador del chasis (3-pin) - 1 x 24-pin cabezal de alimentación ATX - 1 x 4-pin conector de ATX 12V power - 1 x Conector de audio de panel frontal - 2 x Cabezal USB 2.0 (admite 4 puertos USB 2.0 adicionales)
BIOS	<ul style="list-style-type: none"> - 8Mb AMI legal BIOS - Soporta "Plug and Play" - ACPI 1.1 compliance wake up events - Soporta "jumper free setup" - Soporta SMBIOS 2.3.1 - Múltiple ajuste de CPU, VCCM voltage
CD de soport	<ul style="list-style-type: none"> - Controladores, utilidades, software de antivirus (versión de prueba), Google Chrome Browser y Toolbar, Start8 (Version de prueba de 30 días)
Monitor Hardware	<ul style="list-style-type: none"> - 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 - Control de APERTURA DE CARCASA

	- Monitor de Voltaje: +12V, +5V, +3.3V, Vcore
OS	- En conformidad con Microsoft® Windows® 8.1 32 bits / 8.1 64 bits / 8 32 bits / 8 64 bits / 7 32 bits / 7 64 bits / Vista™ 32 bits / Vista™ 64 bits / XP 32 bits / XP 64 bits
Certificaciones	- FCC, CE, WHQL - Cumple con la directiva ErP/EuP (se requiere una fuente de alimentación que cumpla con la directiva ErP/EuP)

* Para más información sobre los productos, por favor visite nuestro sitio web:

<http://www.asrock.com>

Español

Спецификации

Платформа	- форм-фактор Micro ATX
A-Style	- Home Cloud (N68-GS4 FX)
Процессор	- Поддержка Socket AM3+ процессоров - Поддержка Socket AM3 процессоров: AMD Phenom™ II X6 / X4 / X3 / X2 (не поддерживаются 920 / 940) / Athlon II X4 / X3 / X2 / Sempron - Поддержка восьмиядерных процессоров - Поддержка UCC (Unlock CPU Core) - Поддержка технологии AMD Cool 'n' Quiet™ - FSB 1000 MHz (2.0 GT/s) - Поддержка технологии Untied Overclocking - Поддержка технологии Hyper-Transport
Набор микросхем	- NVIDIA® GeForce 7025 / nForce 630a
Память	- Поддержка технологии Dual Channel DDR3 Memory Technology - 2 x гнезда DDR3 DIMM - Поддержите DDR3 1866/1600/1333/1066 не- ECC, безбуферная память - Макс. 16 Гб
Гнезда расширения	- 1 x гнезда PCI Express x16 - 1 x гнезда PCI Express x1 - 2 x гнезда PCI
Графика	- Встроенный видеоадаптер NVIDIA® GeForce 7025 - iGPU класса DX9.0, пиксельные шейдеры версии 3.0 - Макс. объем разделяемой памяти 256Мб - Поддержка D-Sub с максимальным разрешением до 1920x1440 @ 60 Гц
Аудиосистема	- 5.1-канальный звук HD Audio уровня (аудиокодек Realtek ALC662)
ЛВС	N68-GS4 FX: - Qualcomm® Atheros® AR8171, Скорость 10/100/1000 Mb/s - Поддержка технологии Qualcomm® Atheros® Security Wake On Internet Technology - поддержка Wake-On-LAN - Поддержка Energy Efficient Ethernet 802.3az - поддержка PXE N68-S4 FX: - Atheros® AR8152, Скорость 10/100 Mb/s - поддержка Wake-On-LAN - поддержка PXE
Разъемы ввода-вывода на задней панели	I/O Panel - 1 x порт мыши PS/2 - 1 x порт клавиатуры PS/2 - 1 x порт COM1 - 1 x VGA порт

	<ul style="list-style-type: none"> - 4 x порта USB 2.0 на задней панели в стандартной конфигурации - Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор ACT/LINK и индикатор SPEED) - Аудиоразъемы: линейный вход / линейный выход / микрофон
Запоминающие устройства	<ul style="list-style-type: none"> - 4 x разъема SATA2 3,0 Гбит/с, поддержка функций RAID (RAID 0, RAID 1, RAID 0+1, RAID 5 и JBOD), NCQ и "Hot-Plug" (горячее подключение)
Колодки и плате	<ul style="list-style-type: none"> - 1 x разъема ATA133 IDE (Поддерживает до 2 устройств IDE) - 1 x Порт гибкого диска - 1 x Разъем порта печати - 1 x разъем датчика открытой крышки - 1 x соединитель: CPU FAN (4-контактный) - 1 x соединитель: Chassis FAN (3-контактный) - 1 x 24-контактный Колодка питания ATX - 1 x 4-контактный Разъем ATX 12 В - 1 x Аудиоразъем передней панели - 2 x Колодка USB 2.0 (одна колодка для поддержки 4 дополнительных портов USB 2.0)
BIOS	<ul style="list-style-type: none"> - 8Мб AMI BIOS - Лицензированная AMI BIOS - поддержка "Plug and Play" - ACPI 1.1, включение по событиям - поддержка режима настройки без перемычек - поддержка SMBIOS 2.3.1 - центральный CPU, VCCM Мультирегулирование Напряжения
Компактдиск поддержки	<ul style="list-style-type: none"> - Драйверы, утилиты, антивирусное программное обеспечение (Пробный Вариант), Google Chrome Browser и Toolbar, Start8 (демоверсия на 30 дней)
Контроль оборудования	<ul style="list-style-type: none"> - Датчики температуры процессора - Датчики температуры корпуса - Отключение при перегреве процессора для его защиты - Тахометры вентиляторов процессора, корпуса - Тихий режим вентилятора процессора - Определение открытой крышки - Контроль напряжения: +12V, +5V, +3.3V, Vcore
Операцион	<ul style="list-style-type: none"> - Совместимость с Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / Vista™ 32-bit / Vista™ 64-bit / XP 32-bit / XP 64-bit
ные системы Сертификаты	<ul style="list-style-type: none"> - FCC, CE, WHQL - Совместимость с ErP/EuP Ready (требуется блок питания совместимый с ErP/EuP)

* Для детальной информации продукта, пожалуйста посетите наш вебсайт:
<http://www.asrock.com>

Русский

Especificações

Plataforma	- Formato Micro ATX
Estilo A	- Home Cloud (N68-GS4 FX)
CPU	<ul style="list-style-type: none"> - Suporte para processadores Socket AM3+ - Suporte para processadores AM3: Processador AMD Phenom™ II X6 / X4 / X3 / X2 (exceto 920 / 940) / Athlon II X4 / X3 / X2 / Sempron - Preparado para CPU de oito núcleos - Suporta UCC (Unlock CPU Core) - Suporta a tecnologia AMD Cool 'n' Quiet™ - FSB de 1000 MHz (2,0 GT/s) - Suporta a tecnologia Untied Overclocking - Suporta a tecnologia Hyper-Transport
Chipsets	- NVIDIA® GeForce 7025 / nForce 630a
Memória	<ul style="list-style-type: none"> - Suporte à tecnologia de memória de duplo canal - 2 x slots de DDR3 DIMM - Suporte para memória não intermédia DDR3 1866/1600/1333/1066, não ECC - Capacidade máxima de memória do sistema: 16GB
Slots de Expansão	<ul style="list-style-type: none"> - 1 x slot de PCI Express x16 - 1 x slot de PCI Express x1 - 2 x slots de PCI
VGA integrado	<ul style="list-style-type: none"> - Placa gráfica GeForce 7025 da NVIDIA® - VGA DX9.0, Pixel Shader 3.0 - Memória partilhada máxima 256MB - Suporta D-Sub com resolução máxima até 1920x1440 @ 60Hz
Áudio	- Áudio de alta definição de canal 5.1 (Codec de áudio Realtek ALC662)
LAN	<p>N68-GS4 FX:</p> <ul style="list-style-type: none"> - Qualcomm® Atheros® AR8171, velocidade 10/100/1000 Mb/s - Suporta a tecnologia Qualcomm® Atheros® Security Wake On Internet - Suporta Wake-On-LAN - Suporta IEEE 802.3az - Suporta PXE <p>N68-S4 FX:</p> <ul style="list-style-type: none"> - Atheros® AR8152, velocidade 10/100 Mb/s - Suporta Wake-On-LAN

	- Suporta PXE
Entrada/Saída pelo painel traseiro	<p>I/O Panel</p> <ul style="list-style-type: none"> - 1 x porta para mouse PS/2 - 1 x porta para teclado PS/2 - 1 x porta COM1 - 1 x porta VGA - 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
Armazenamento	- 4 x conectores SATA2, 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 e "conexão a quente"
Conectores	<ul style="list-style-type: none"> - 1 x conectores ATA133 IDE (suporta até 2 dispositivos IDE) - 1 x porta para disquete - 1 x Conector de Porta de Impressão - 1 x Conector de intrusão no chassis - 1 x Conector do ventilador da CPU (4 pinos) - 1 x Conector do ventilador da chassis (3 pinos) - 1 x Conector de força do ATX de 24 pinos - 1 x Conector ATX 12 V de 4 pinos - 1 x Conector Áudio do painel frontal - 2 x cabezal USB 2.0 (suportar 4 portas USB 2.0 adicionais)
BIOS	<ul style="list-style-type: none"> - 8Mb 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 - Regulação Múltipla de Voltagem de CPU, VCCM
CD de suporte	- Controladores, utilitários, software antivírus (Experimentação Versão), Navegador Google Chrome e Barra de Ferramentas, Start8 (30 dias de avaliação)
Monitor do HW	<ul style="list-style-type: none"> - Sensores de temperatura do processador - Medição de temperatura da placa-mãe - Tacômetros de ventilador do Processador - Tacômetros de ventilador do chassis - Ventoinha silenciosa para a CPU - Detecção de CAIXA ABERTA - Monitoramento de voltagem : +12 V, +5 V, +3.3 V, Vcore

Sistema Operacional	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / Vista™ 32-bit / Vista™ 64-bit / XP 32-bit / XP 64-bit
Certificações	- FCC, CE, WHQL - Preparada para ErP/EuP (é necessária uma fonte de alimentação preparada para ErP/EuP)

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

Özellikler

Platform	- Mikro ATX Form Faktörü
A-Stili	- Ev Bulutu (N68-GS4 FX)
CPU	- AM3+ işlemcileri desteği - AM3 işlemcileri desteği: AMD Phenom™ II X6 / X4 / X3 / X2 (dışında 920 / 940) / Athlon II X4 / X3 / X2 / Sempron işlemcileri - Sekiz Çekirdekli CPU Hazır - UCC özelliğini destekler (CPU Çekirdeği Kilidi Açma) - AMD'nin Cool 'n' Quiet™ Teknolojisini Destekler - FSB 1000 MHz (2,0 GT/sn) - Untied Overclocking Teknolojisini destekler - Hyper-Transport Teknolojisini Destekler
Yonga seti	- NVIDIA® GeForce 7025 / nForce 630a
Bellek	- Çift Kanallı DDR3 Belleği Teknolojisi - 2 x DDR3 DIMM yuva - DDR3 1866/1600/1333/1066 ECC olmayan, ara belleksiz bellek - Sistem belleğinin maks. kapasitesi: 16 GB
Genişletme Yuvası	- 1 x PCI Express x16 yuva - 1 x PCI Express x1 yuva - 2 x PCI yuva
Grafikler	- Entegre NVIDIA® GeForce 7025 grafik kartı - DX9.0 VGA, Pixel Shader 3.0 - Maks. paylaşılan bellek 256 MB - 60Hz'de 1920x1440'a kadar maks. çözünürlükle D-Sub'ı destekler
Ses	- 5,1 Kanal HD Ses (Realtek ALC662 Ses Codec'i)
LAN	N68-GS4 FX: - Qualcomm® Atheros® AR8171, hız 10/100/1000 Mb/sn - Qualcomm® Atheros® Güvenli İnternet Açışı Teknolojisini destekler - LAN'da Uyan özelliğini destekler - Enerji Verimliliğine Sahip Ethernet 802.3az işlevini destekler - PXE destekler N68-S4 FX: - Atheros® AR8152, hız 10/100 Mb/sn - LAN'da Uyan özelliğini destekler - PXE destekler
Arka Panel G/C	G/Ç Paneli - 1 x PS/2 Fare Portu - 1 x PS/2 Klavye Portu - 1 x Seri Port: COM1 - 1 x VGA Portu

Türkçe

	<ul style="list-style-type: none"> - 4 x Kullanıma Hazır USB 2.0 Portu - 1 x RJ-45 LAN Portu, LED'li (AKT/LINK LED'i ve HIZ LED'i) - HD Ses Jakı: Hat girişi / Ön Hoparlör / Mikrofon
Depolama	- 4 x SATA2 3,0Gb/sn konektör, RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ ve "Sistem Açıkken Bileşen Takma" işlevlerini destekler
Konektör	<ul style="list-style-type: none"> - 1 x ATA133 IDE konektörü (2 x IDE cihazı destekler) - 1 x Disket konektörü - 1 x Yazdırma portu fişi - 1 x Kasaya Yetkisiz Erişim fişi - 1 x CPU FAN konektörü (4 pin) - 1 x Kasa FAN konektörü (3 pin) - 1 x 24 pin ATX güç konektörü - 1 x 4 pin 12V güç konektörü - 1 x Ön panel ses fişi - 2 x USB 2.0 fiş (4 USB 2.0 portu destekler)
BIOS Özelliği	<ul style="list-style-type: none"> - 8Mb AMI BIOS - AMI Legal BIOS - "Tak Çalıştır"ı destekler - ACPI 1.1 Uyumlu Uyandırma Olayları - Jumpersız destekler - SMBIOS 2.3.1 Desteği - CPU, VCCM gerilim çok ayarı
Destek CD'si	- Sürücüler, Yardımcı Programlar, AntiVirüs Yazılımı (Deneme Sürümü), Google Chrome Browser ve Toolbar, Start8 (30 günlük deneme)
Donanım Monitör	<ul style="list-style-type: none"> - CPU Sıcaklık Duyarlılığı - Kasa Sıcaklık Duyarlılığı - CPU Fan Takometresi - Kasa Fan Takometresi - CPU Sessiz Fan - KASA ACİK algılaması. - Voltaj İzleme: +12V, +5V, +3.3V, Vcore
İS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / Vista™ 32-bit / Vista™ 64-bit / XP 32-bit / XP 64-bit
Sertifikalar	<ul style="list-style-type: none"> - FCC, CE, WHQL - ErP/EuP için hazır (ErP/EuP için hazır güç beslemesi gereklidir)

* Ayrıntılı ürün bilgileri için lütfen web sitemizi ziyaret edin: <http://www.asrock.com>

설명서

플랫폼	- Micro ATX 폼 팩터
A-스타일	- 홈 클라우드(N68-GS4 FX)
CPU	- Socket AM3+ 프로세서에 대한 지원 - Socket AM3 프로세서에 대한 지원: AMD Phenom™ II X6 / X4 / X3 / X2 (920/940 제외) / Athlon II X4 / X3 / X2 / Sempron 프로세서 - 8-코어 CPU 지원 - UCC (Unlock CPU Core) 지원 - AMD 의 Cool 'n' Quiet™ 기술 - FSB 1000 MHz(2.0 GT/s) - 언타이드 오버클러킹(Untied Overclocking) 기술 지원 - 하이퍼 트랜스포트 기술 지원
칩셋	- NVIDIA® GeForce 7025 / nForce 630a
메모리	- 듀얼 채널 메모리 기술 지원 - DDR3 DIMM 슬롯 2 개 - DDR3 1866/1600/1333/1066 비-ECC, 언버퍼드 메모리를 지원 - 최대 시스템 메모리 용량: 16GB
확장 슬롯	- 1개의 PCI Express x16 슬롯 - 1개의 PCI Express x1 슬롯 - 2개의 PCI 슬롯
온보드 VGA	- 통합 NVIDIA® GeForce 7025 클래스 그래픽 - DX9.0 VGA, Pixel Shader 3.0 - 최대 공유 메모리 256MB - 최대 해상도 1920x1440 @ 60Hz 까지 D-Sub 지원
오디오	- 5.1CH HD 오디오 (Realtek ALC662 오디오 코덱)
랜	N68-GS4 FX: - Qualcomm® Atheros® AR8171, 속도 : 10/100/1000 Mb/s - Qualcomm® Atheros® 보안 웨이크 온 인터넷 기술 지원 - 웨이크-온-랜 지원 - 절전형 이더넷 802.3az 지원 - PXE 지원 N68-S4 FX: - Atheros® AR8152, 속도 : 10-100 이더넷 - 웨이크-온-랜 지원 - PXE 지원
후면판 I/O	I/O Panel - 1개 PS/2 마우스 포트 - 1개 PS/2 키보드 포트 - 1개의 COM1

	<ul style="list-style-type: none"> - 1개의 VGA - 4개디폴트 USB 2.0 포트 - 1개LED(ACT/LINK LED 및 SPEED LED)가 있는 RJ-45 LAN 포트 - 오디오 잭: 라인 인 / 전방 스피커 / 마이크
저장 장치	<ul style="list-style-type: none"> - 4개의 SATA2.0Gb/s 커넥터, RAID (RAID 0, RAID 1, RAID 0+1, RAID 5 및 JBOD) 기능 지원, NCQ 및 “핫 플러그” 기능 지원
온보드 헤더 및 커넥터	<ul style="list-style-type: none"> - ATA133 IDE 커넥터 1개 (최고 2개의 IDE 장치 지원) - 플로피 포트 1개 - 프린트 포트 헤더 1개 - 새시 침입 헤더 1개 - CPU 팬 커넥터 1개 (4핀) - 새시 팬 커넥터 1개 (3핀) - 24 핀 ATX 전원 헤더 1개 - 4 핀 ATX 12V 파워 콘넥터 1개 - 전면부 오디오 콘넥터 1개 - USB 2.0 헤더 2개 (4개의 추가 USB 2.0 포트를 지원하는 헤더 2개)
BIOS	<ul style="list-style-type: none"> - 8Mb 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 - CPU, VCCM 전압 멀티 조절
지원 CD	<ul style="list-style-type: none"> - 드라이버, 유틸리티, 안티 바이러스 소프트웨어(트라이얼 버전), Google Chrome Browser 및 Toolbar, Start8 (30일 시험판)
하드웨어 모니터	<ul style="list-style-type: none"> - CPU 온도 감지 - 마더보드 온도 감지 - CPU 과열시 CPU 수명 보호를 위한 시스템 정지기능 - CPU 팬 회전 속도계: 사시(케이스) 팬 회전 속도계 - CPU 소음팬 - 케이스 열림 감지 - 전압 감시 기능 : +12V, +5V, +3.3V, Vcore
OS	<ul style="list-style-type: none"> - 마이크로 소프트 Windows® 8.1 32 비트/8.1 64 비트/8 32 비트/8 64 비트/7 32 비트/7 64 비트/Vista™ 32 비트/Vista™ 64 비트/XP 32 비트/XP 64 비트
인증서	<ul style="list-style-type: none"> - FCC, CE, WHQL - ErP/EuP 지원(ErP/EuP 지원 전원 공급기가 요구됨)

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

仕様

プラットフォーム	- Micro ATX フォームファクター
A スタイル	- Home Cloud (N68-GS4 FX)
CPU	- Socket AM3+プロセッサのサポート - Socket AM3プロセッサのサポート :AMD Phenom™ II X6 / X4 / X3 / X2 (920 / 940を除く) / Athlon II X4 / X3 / X2 / Sempron プロセッサ - 8-Core CPU 搭載 - UCC (Unlock CPU Core)をサポート - AMD社 Cool 'n' Quiet™をサポート - FSB 1000 MHz (2.0 GT/s) - Untied Overclockingをサポート - Hyper-Transportをサポート
チップセット	- NVIDIA® GeForce 7025 / nForce 630a
メモリー	- デュアルチャンネルDDR3メモリーテクノロジー - DDR3 DIMMスロット x 2 - DDR3 1866/1600/1333/1066 non-ECC, un-bufferedメモリーに対応 - システムメモリーの最大容量: 16GB
拡張スロット	- 1 x PCI Express x16スロット - 1 x PCI Express x1スロット - 2 x PCIスロット
グラフィック	- 統合されたNVIDIA® GeForce 7025シリーズ - DX9.0 VGA、Pixel Shader 3.0 - 最大の共有メモリー 256MB - 1920x1440 @ 60Hzの最大解像度でD-Subをサポート
オーディオ	- 5.1 CH HDオーディオ(Realtek ALC662オーディオコーデック)
LAN	N68-GS4 FX: - Qualcomm® Atheros® AR8171, 速度: 10/100/1000 Mb/s - クアルコム® アセロス® セキュリティウェイクオンインターネットテクノロジーをサポート - Wake-On-LANをサポート - エネルギー効率のよいイーサネット 802.3azをサポート - PXEをサポート N68-S4 FX: - Atheros® AR8152, 速度: 10/100 Ethernet - Wake-On-LANをサポート - PXEをサポート

リアパネル I/O	I/O Panel <ul style="list-style-type: none"> - PS/2マウスポート x 1 - PS/2キーボードポート x 1 - シリアルポート (コネクタ-巻状: COM1) x 1 - VGAポート x 1 - Ready-to-Use USB 2.0ポート x 4 - LED(ACT/LINK LED および SPEED LED) 付き - RJ-45 LAN ポート x 1 - オーディオジャック: 入力、前部スピーカー、マイク入力
ストレージ	<ul style="list-style-type: none"> - 4 x SATA2 3.0Gb/秒コネクタが、RAID (RAID 0、RAID 1、RAID 0+1、RAID 5、JBOD)、NCQおよび「ホットプラグ」機能をサポート
コネクタ	<ul style="list-style-type: none"> - ATA133 IDEコネクタ-s(サポート 2 x IDE devices) x 1 - フロッピーコネクタ x 1 - プリントポートヘッダ x 1 - シャーシ侵入ヘッダ x 1 - CPUファンコネクタ x 1 (4ピン) - シャーシファンコネクタ x 1 (4ピン) - 24ピン ATX電源コネクタ x 1 - 4ピン 12V電源コネクタ x 1 - フロントパネルオーディオコネクタ x 1 - USB 2.0 ヘッダー(USB 2.0用4ポートをサポート) x 2
BIOS 関連機能	<ul style="list-style-type: none"> - 8Mb AMI BIOS - AMI Legal BIOS - プラグ&プレイをサポート - ACPI 1.1 準拠ウェイクアップイベント - jumperfree モード サポート - SMBIOS 2.3.1 サポート - CPU、VCCMブリッジ電圧
サポート CD	<ul style="list-style-type: none"> - ドライバー、ユーティリティ、アンチウィルスソフトウェアハードウェア (体験版)、Google Chrome Browser および Toolbar、Start8(30 日トライアル版)
モニター	<ul style="list-style-type: none"> - CPU温度検知 - マザーボード温度検知 - CPUファンタコメータ - シャーシファンタコメータ - CPUクワイエットファン - ケースオープン検出 - 電源モニター: +12V, +5V, +3.3V, Vcore

OS	- Microsoft® Windows® 8.1 32-bit/8.1 64-bit/8 32-bit/8 64-bit/7 32-bit/7 64-bit/Vista™ 32-bit/Vista™ 64- bit/XP 32-bit/XP 64-bit
認証	- FCC, CE, WHQL 認証済み - ErP/EuP 対応(ErP/EuP 対応の電源装置が必要です)

* 製品の詳細については、<http://www.asrock.com> を御覧ください。

主板规格

架构	- Micro ATX 规格
A-Style	- 家庭云(N68-GS4 FX)
处理器	- 支持 Socket AM3+ 处理器 - 支持 AM3 处理器: AMD Phenom™ II X6 / X4 / X3 / X2 (920/940除外) / Athlon II X4 / X3 / X2 / Sempron 处理器 - 八核心 CPU 就绪 - 支持 UCC (Unlock CPU Core) - 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 - 支持 Hyper-Transport 技术
芯片组	- NVIDIA® GeForce 7025 / nForce 630a
系统内存	- 支持双通道内存技术 - 配备 2 个 DDR3 DIMM 插槽 - 支持 DDR3 1866/1600/1333/1066 non-ECC、un-buffered 内存 - 最高支持 16GB 系统容量
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® GeForce 7025 显卡 - DX9.0 显卡, Pixel Shader 3.0 技术 - 最大共享内存 256MB - 支持 D-Sub, 最高分辨率达 1920x1440 @ 60Hz
音效	- 5.1 声道高保真音频(Realtek ALC662 音频编解码器)
板载 LAN 功能	N68-GS4 FX: - Qualcomm® Atheros® AR8171, 10/100/1000 Mb/s - 支持 Qualcomm® Atheros® 网上安全唤醒技术 - 支持网路唤醒 (Wake-On-LAN) - 支持高效以太网 802.3az - 支持 PXE N68-S4 FX: - Atheros® AR8152, 高速 10/100 局域网 - 支持网路唤醒 (Wake-On-LAN) - 支持 PXE
Rear Panel I/O (后面板输入/	I/O 界面 - 1 个 PS/2 鼠标接口 - 1 个 PS/2 键盘接口

输出接口)	<ul style="list-style-type: none"> - 1 个串行接口 - 1 个 VGA 接口 - 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) - 高保真音频插孔: 音频输入 / 前置喇叭 / 麦克风
存储	<ul style="list-style-type: none"> - 4 x SATA2 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
连接头	<ul style="list-style-type: none"> - 1 x ATA133 IDE 插座 (最高支持 2 个 IDE 驱动器) - 1 x 软驱接口 - 1 x 打印机端口接针 - 1 x 机箱开启警告功能接针 - 1 x CPU 风扇接头 (4 针) - 1 x 机箱风扇接头 (3 针) - 1 x 24 针 ATX 电源接头 - 1 x 4 针 12V 电源接头 - 1 x 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)
BIOS	<ul style="list-style-type: none"> - 8Mb 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 - CPU, VCCM 电压多功能调节器
支持光盘	<ul style="list-style-type: none"> - 驱动程序, 工具软件, 杀毒软件 (测试版本), Chrome 谷歌浏览器和工具栏, Start8 (30 天试用版)
硬件监控器	<ul style="list-style-type: none"> - 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 - 机箱开启侦测 - 电压范围: +12V, +5V, +3.3V, 核心电压
操作系统	<ul style="list-style-type: none"> - Microsoft® Windows® 8.1 32 位元 / 8.1 64 位元 / 8 32 位元 / 8 64 位元 / 7 32 位元 / 7 64 位元 / Vista™ 32 位元 / Vista™ 64 位元 / XP 32 位元 / XP 64 位元适用于此主板
认证	<ul style="list-style-type: none"> - FCC, CE, WHQL - 支持 ErP/EuP (需要同时使用支持 ErP/EuP 的电源供应器)

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

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。

主機板規格

架構	- Micro ATX 規格
A-Style	- 家庭雲(N68-GS4 FX)
處理器	- 支援 AM3+ 處理器 - 支援 Socket AM3 處理器: AMD Phenom™ II X6 / X4 / X3 / X2 (920 / 940 除外) / Athlon II X4 / X3 / X2 / Sempron 處理器 - 八核心 CPU 就緒 - 支援 UCC (Unlock CPU Core) - 支援 AMD Cool 'n' Quiet™ 冷靜技術 - 支援 FSB 1000 MHz (2.0 GT/s) - 支援非同步超頻技術 - 支援 Hyper-Transport 技術
晶片組	- NVIDIA® GeForce 7025 / nForce 630a
系統記憶體	- 支援雙通道記憶體技術 - 2 個 DDR3 DIMM 插槽 - 支援 DDR3 1866/1600/1333/1066 non-ECC、un-buffered 記憶體 - 最高支援 16GB 系統容量
擴充插槽	- 1 x PCI Express x16 插槽 - 1 x PCI Express x1 插槽 - 2 x PCI 插槽
內建顯示	- 內建 NVIDIA® GeForce 7025 顯示 - DX9.0 顯示, Pixel Shader 3.0 技術 - 最大共享記憶體 256MB - 支援 D-Sub, 最高解析度達 1920x1440 @ 60Hz
音效	- 5.1 聲道高清晰音效(Realtek ALC662 音效編解碼器)
網路功能	N68-GS4 FX: - Qualcomm® Atheros® AR8171, 10/100/1000 Mb/s - 支援 Qualcomm® Atheros® Security Wake On Internet Technology - 支援網路喚醒 (Wake-On-LAN) - 支援 Energy Efficient Ethernet 802.3az - 支援 PXE N68-S4 FX: - Atheros® AR8152, 10/100 區域網 - 支援網路喚醒 (Wake-On-LAN) - 支援 PXE
Rear Panel I/O	I/O 界面 - 1 個 PS/2 滑鼠接口

(後背板輸入/輸出接口)	<ul style="list-style-type: none"> - 1 個 PS/2 鍵盤接口 - 1 個 COM 接口 - 1 個 VGA 接口 - 4 個可直接使用的 USB 2.0 接口 - 1 個 RJ-45 區域網接口與 LED 指示燈(ACT/LINK LED 和 SPEED LED) - 高清晰音效插孔：音效輸入 / 前置喇叭 / 麥克風
儲存裝置	<ul style="list-style-type: none"> - 4 x SATA2 3.0Gb/s 接頭, 支援 RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ, AHCI 和 “熱插拔” 功能
接頭	<ul style="list-style-type: none"> - 1 x ATA133 IDE 插座 (最高支持 2 個 IDE 驅動器) - 1 x 磁碟機接口 - 1 x 印表機接頭 - 1 x 機殼開啟警告功能接頭 - 1 x CPU 風扇接頭(4 針) - 1 x 機箱風扇接頭(3 針) - 1 x 24 針 ATX 電源接頭 - 1 x 4 針 12V 電源接頭 - 1 x 前置音效接頭 - 2 x USB 2.0 接口 (可支持 4 個額外的 USB 2.0 接口)
BIOS	<ul style="list-style-type: none"> - 8Mb AMI BIOS - 採用 AMI BIOS - 支援即插即用 (Plug and Play, PnP) - ACPI 1.1 電源管理 - 支援喚醒功能 - 支援 jumperfree 免跳線模式 - 支援 SMBIOS 2.3.1 - CPU, VCCM 電壓多功能調節器
支援光碟	<ul style="list-style-type: none"> - 驅動程式, 工具軟體, 防毒軟體 (試用版), Google Chrome Browser 和 Toolbar, Start8 (30 天試用)
硬體監控器	<ul style="list-style-type: none"> - CPU 溫度檢測 - 主板溫度偵測 - CPU 風扇轉速計 - 系統風扇轉速計 - CPU 靜音風扇 - 機殼開啟偵測 - 電壓範圍: +12V, +5V, +3.3V, 核心電壓
操作系統	<ul style="list-style-type: none"> - Microsoft® Windows® 8.1 32 位元/8.1 64 位元/8 32 位元/8 64 位元/7 32 位元/7 64 位元/Vista™ 32 位元/Vista™ 64 位元/XP 32 位元/XP 64 位元
認證	<ul style="list-style-type: none"> - FCC, CE, WHQL - 支援 ErP/EuP (需要同時使用支援 ErP/EuP 的電源供應器)

* 請參閱華擎網站了解詳細的產品訊息: <http://www.asrock.com>

Spesifikasi

Podium	- Faktor Form Mikro ATX
A-Style	- Home Cloud (N68-GS4 FX)
CPU	- Stopkontak AM3+ - Stopkontak AM3 untuk AMD Phenom™ II X6 / X4 / X3 / X2 (kecuali 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processor - Dukungan CPURT Delapan Inti - Menggunakan Teknologi UCC (Unlock CPU Core) - Dapat digunakan AM's Cool 'n' Quiet™ Technology - FSB 1000 MHz (2.0 GT/s) - Menggunakan Teknologi Untied Overclocking - Dapat digunakan Hyper-Transport Technology
Grup Chip	- NVIDIA® GeForce 7025 / nForce 630a
Ingatan	- Teknologi ingatan DDR3 dwisaluran - 2 x Alur DDR3 DIMM - Menggunakan DDR3 1866/1600/1333/1066 - Kapasitas paling banyak: 16GB
Alur Ekspansi	- 1 x PCI Express x16 slot - 1 x PCI Express x1 slot - 2 x Alur PCI
Diagram	- Integrated NVIDIA® GeForce 7025 graphics - DX9.0 VGA, Pixel Shader 3.0 - Ingatan sama Max. 256MB - Mendukung D-Sub dengan resolusi maksimal hingga 1920x1440 @ 60Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	N68-GS4 FX: - Qualcomm® Atheros® AR8171, Kecepatan 10/100/1000 Mb/s - Mendukung Teknologi Qualcomm® Atheros® Security Wake On Internet - Menggunakan Wake-On-LAN - Mendukung Energy Efficient Ethernet 802.3az - Menggunakan PXE N68-S4 FX: - Atheros® AR8152, Kecepatan 10/100 Mb/s - Menggunakan Wake-On-LAN - Menggunakan PXE
Papan Belakang I/O	I/O Panel - 1 x Port Mouse PS/2 - 1 x Port Keyboard PS/2

	<ul style="list-style-type: none"> - 1 x Port Serial: COM1 - 1 x Port VGA - 4 x Port USB 2.0 siap-dipakai - 1 x RJ-45 LAN Port LED (ACT/LINK LED dan SPEED LED) - HD Audio Jack: Line in/Penyuara Depan/mikropon
Penyimpanan	- 4 x penghubung SATA2 3.0Gb/s, dapat digunakan RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ dan fungsi fungsi "Hot Plug"
Penghubung	<ul style="list-style-type: none"> - 1 x Penghubung ATA133 IDE (menggunakan perlengkapan 2 x IDE) - 1 x Penghubung Floppy - 1 x port header Print - 1 x Chassis Intrusion header - 1 x Penghubung KIPAS CPU (4 pin) - 1 x Penghubung KIPAS Casis (3 pin) - 1 x Penghubung power 24 pin ATX - 1 x Penghubung power 4 pin 12V - 1 x Penghubung audio panel dapan - 2 x USB 2.0 header (menggunakan 4 port USB 2.0)
Ciri-ciri BIOS	<ul style="list-style-type: none"> - 8Mb AMI BIOS - AMI Legal BIOS - Menggunakan "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Menggunakan jumperfree - Penyokong AMBIOS 2.3.1 - Penyesuaian berbagai tegangan CPU, VCCM
Sokongan CD	- Driver, Utilitas, Perangkat Lunak Anti Virus (Versi Percobaan), Google Chrome Browser dan Toolbar, Start8 (uji coba 30 hari)
Penjaga Hardware	<ul style="list-style-type: none"> - Perasa Suhu CPU - Perasa Suhu Casis - Pengukur Kipas CPU - Pengukur Kipas CPasis - Kipas diam CPU - Deteksi CASING TERBUKA - Penjagaan voltasi: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / Vista™ 32-bit / Vista™ 64-bit / XP 32-bit / XP 64-bit
Sertifikasi	<ul style="list-style-type: none"> - FCC, CE, WHQL - ErP/EuP Hazır (ErP/EuP hazır güç kaynağı gerekli)

Contact Information

If you need to contact ASRock or want to know more about ASRock, you're welcome to visit ASRock's website at <http://www.asrock.com>; or you may contact your dealer for further information. For technical questions, please submit a support request form at <http://www.asrock.com/support/tsd.asp>

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