
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.



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"

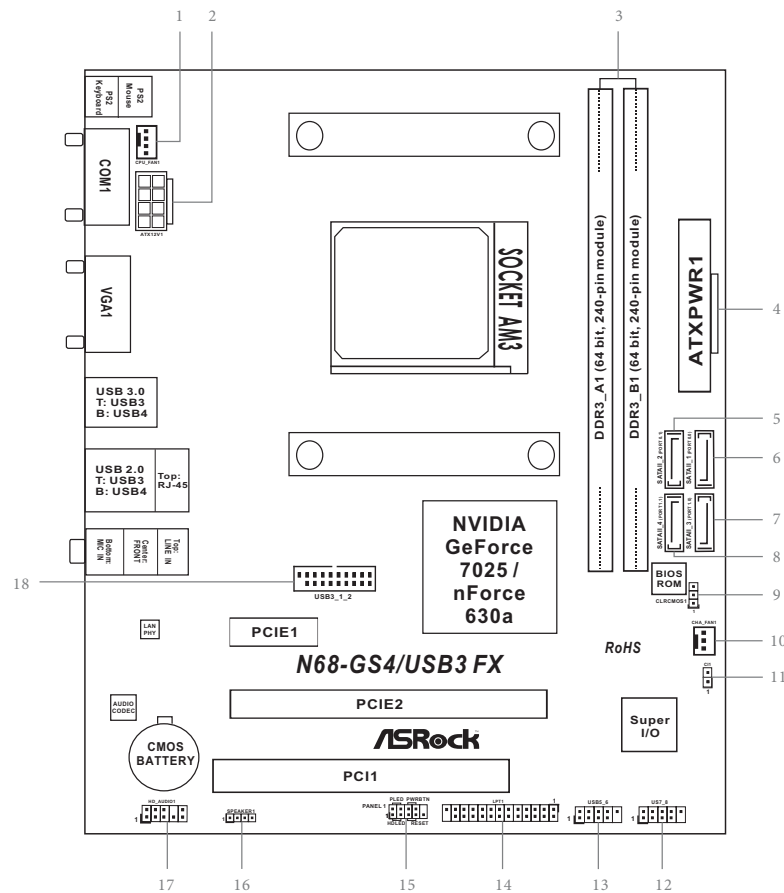
ASRock Website: <http://www.asrock.com>

Published October 2015
Copyright©2015 ASRock INC. All rights reserved.

English

Motherboard Layout

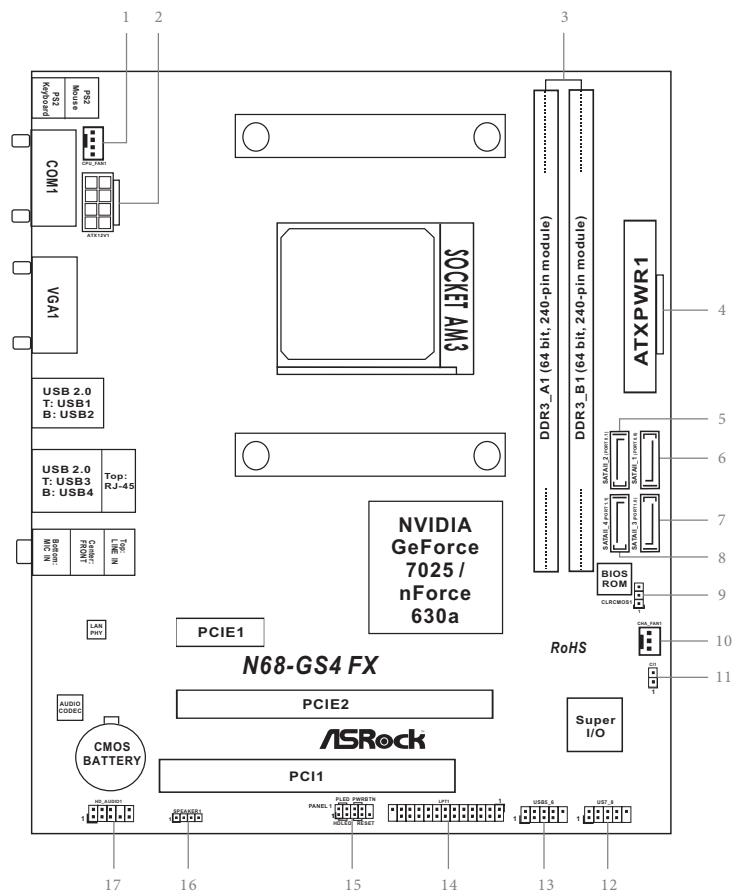
N68-GS4/USB3 FX R2.0:



English

- | | | | |
|---|---|----|--------------------------------------|
| 1 | CPU Fan Connector (CPU_FAN1) | 10 | Chassis Fan Connector (CHA_FAN1) |
| 2 | ATX 12V Power Connector (ATX12V1) | 11 | Chassis Intrusion Header (CI1) |
| 3 | 2 x 240-pin DDR3 DIMM Slots
(Dual Channel: DDR3_A1, DDR3_B1) | 12 | USB 2.0 Header (USB7_8) |
| 4 | ATX Power Connector (ATXPWR1) | 13 | USB 2.0 Header (USB5_6) |
| 5 | SATA2 Connector (SATAII_2 (PORT 0.1)) | 14 | Print Port Header (LPT1) |
| 6 | SATA2 Connector (SATAII_1 (PORT 0.0)) | 15 | System Panel Header (PANEL1) |
| 7 | SATA2 Connector (SATAII_3 (PORT 1.0)) | 16 | Chassis Speaker Header (SPEAKER1) |
| 8 | SATA2 Connector (SATAII_4 (PORT 1.1)) | 17 | Front Panel Audio Header (HD_AUDIO1) |
| 9 | Clear CMOS Jumper (CLRCMOS1) | 18 | USB 3.0 Header (USB3_1_2) |

N68-GS4 FX R2.0:

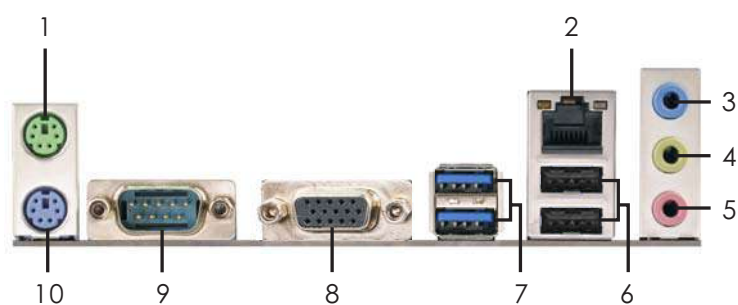


- | | | | |
|---|---|----|--------------------------------------|
| 1 | CPU Fan Connector (CPU_FAN1) | 9 | Clear CMOS Jumper (CLRCMOS1) |
| 2 | ATX 12V Power Connector (ATX12V1) | 10 | Chassis Fan Connector (CHA_FAN1) |
| 3 | 2 x 240-pin DDR3 DIMM Slots
(Dual Channel: DDR3_A1, DDR3_B1) | 11 | Chassis Intrusion Header (CI1) |
| 4 | ATX Power Connector (ATXPWR1) | 12 | USB 2.0 Header (USB7_8) |
| 5 | SATA2 Connector (SATAII_2 (PORT 0.1)) | 13 | USB 2.0 Header (USB5_6) |
| 6 | SATA2 Connector (SATAII_1 (PORT 0.0)) | 14 | Print Port Header (LPT1) |
| 7 | SATA2 Connector (SATAII_3 (PORT 1.0)) | 15 | System Panel Header (PANEL1) |
| 8 | SATA2 Connector (SATAII_4 (PORT 1.1)) | 16 | Chassis Speaker Header (SPEAKER1) |
| | | 17 | Front Panel Audio Header (HD_AUDIO1) |

English

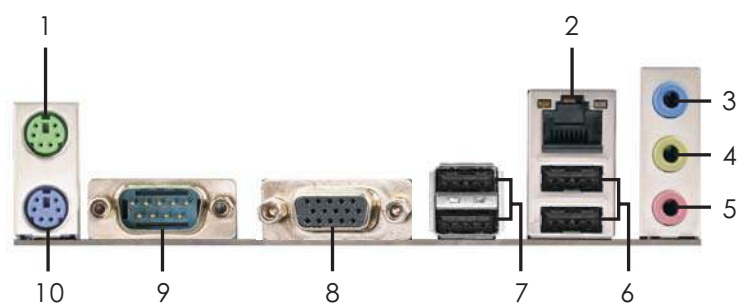
I/O Panel

N68-GS4/USB3 FX R2.0:



- | | |
|---------------------------|--------------------------------|
| 1 PS/2 Mouse Port (Green) | 6 USB 2.0 Ports (USB34) |
| 2 RJ-45 Port* | 7 USB 3.0 Ports (USB3_34) |
| 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) |

N68-GS4 FX R2.0:

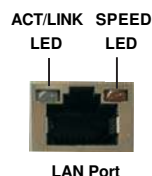


- | | |
|---------------------------|--------------------------------|
| 1 PS/2 Mouse Port (Green) | 6 USB 2.0 Ports (USB34) |
| 2 RJ-45 Port* | 7 USB 2.0 Ports (USB12) |
| 3 Line In (Light Blue)** | 8 D-Sub Port |
| 4 Front Speaker (Lime)** | 9 COM Port |
| 5 Microphone (Pink)** | 10 PS/2 Keyboard Port (Purple) |

English

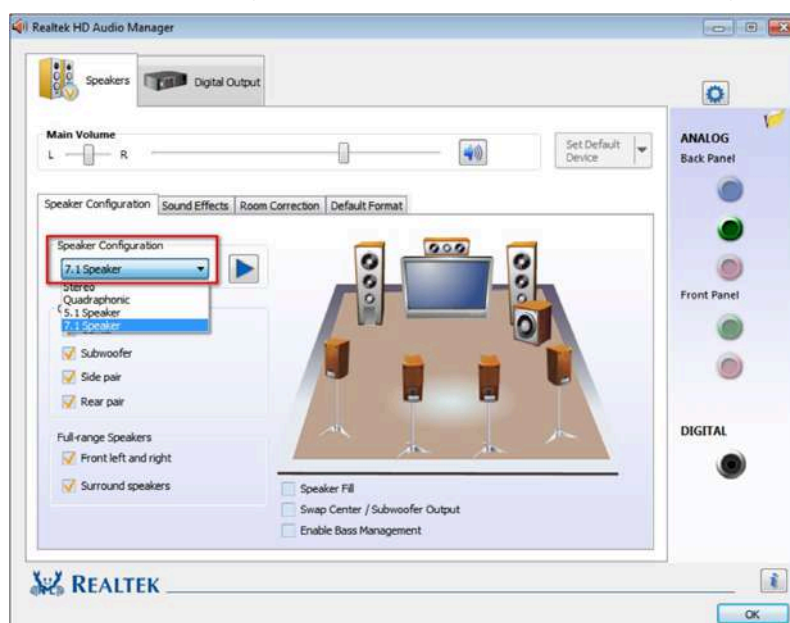
* There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

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



** To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.

Please set Speaker Configuration to "7.1 Speaker" in the Realtek HD Audio Manager.



Function of the Audio Ports in 7.1-channel Configuration

Port	Function
Light Blue (Rear panel)	Rear Speaker Out
Lime (Rear panel)	Front Speaker Out
Pink (Rear panel)	Central /Subwoofer Speaker Out
Lime (Front panel)	Side Speaker Out

English

1. Introduction

Thank you for purchasing ASRock **N68-GS4/USB3 FX R2.0 / N68-GS4 FX R2.0** 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.



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

ASRock **N68-GS4/USB3 FX R2.0 / N68-GS4 FX R2.0** Motherboard

(Micro ATX Form Factor)

ASRock **N68-GS4/USB3 FX R2.0 / N68-GS4 FX R2.0X** Quick Installation Guide

ASRock **N68-GS4/USB3 FX R2.0 / N68-GS4 FX R2.0** Support CD

2 x Serial ATA (SATA) Data Cables (Optional)

1 x I/O Panel Shield

1.2 Specifications

Platform	- Micro ATX Form Factor - Solid Capacitor design
CPU	- 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 - 4 + 1 Power Phase design - 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	- 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	- 1 x PCI Express x16 Slot - 1 x PCI Express x1 Slot - 1 x PCI Slot
Graphics	- 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	- 7.1 CH HD Audio (Realtek ALC887 Audio Codec) * To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver. - Supports Surge Protection (ASRock Full Spike Protection) - ELNA Audio Caps
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports Energy Efficient Ethernet 802.3az

	- Supports PXE
Rear Panel I/O	N68-GS4/USB3 FX R2.0: - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Serial Port: COM1 - 1 x D-Sub Port - 2 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 2 x USB 3.0 Ports (Etron EJ188H) (PCIE GEN1) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Line in / Front Speaker / Microphone
Rear Panel I/O	N68-GS4 FX R2.0: - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Serial Port: COM1 - 1 x D-Sub Port - 4 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Line in / Front Speaker / Microphone
Storage	- 4 x SATA2 3.0 Gb/s Connectors, support RAID (RAID 0, RAID 1, RAID 0+1, RAID 5 and JBOD), NCQ and Hot Plug
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 8 pin 12V Power Connector - 1 x Front Panel Audio Connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header by Etron EJ188H (PCIE GEN1) (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) (for N68-GS4/USB3 FX R2.0 only)
BIOS Feature	- AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliant wake up events - Supports jumperfree - SMBIOS 2.3.1 support - CPU, VCCM, NB Voltage multi-adjustment

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® 10 32-bit / 10 64-bit / 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>

WARNING

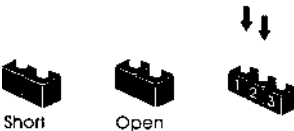
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using the third-party overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices 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 140W. 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® 10 / 8.1 / 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® 10 32-bit / 10 64-bit / 8.1 32-bit / 8.1 64-bit. This motherboard does not support RAID mode with HDDs of 3TB and above.

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 or 3, No. 9)	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.



If you clear the CMOS, the case open may be detected. Please adjust the BIOS option "Clear Status" to clear the record of previous chassis intrusion status.

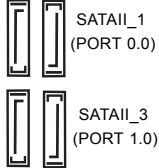
1.4 Onboard Headers and Connectors



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!

Serial ATA2 Connectors

(SATAII_1 (PORT 0.0): see p.2 or 3, No. 6) SATAII_2 (PORT 0.1): see p.2 or 3, No. 5) SATAII_1 (PORT 0.0): see p.2 or 3, No. 7) SATAII_4 (PORT 1.1): see p.2 or 3, No. 8)

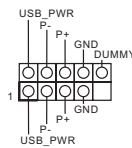


These four Serial ATA2 (SATA2) connectors support SATA2 or SATA hard disk for internal storage devices. The current SATA2 interface allows up to 3.0 Gb/s data transfer rate.

USB 2.0 Headers

(9-pin USB5_6)
(see p.2 or 3 No. 13)

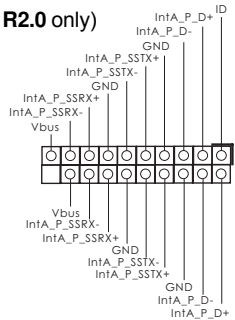
(9-pin USB7_8)
(see p.2 or 3 No. 12)



There are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

USB 3.0 Header

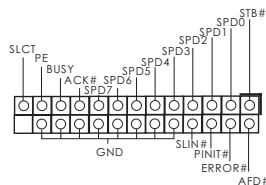
(for N68-GS4/USB3 FX R2.0 only)
(19-pin USB3_1_2)
(see p.2 No. 18)



There is one USB 3.0 header on this motherboard. This USB 3.0 header can support two USB 3.0 ports.

Print Port Header

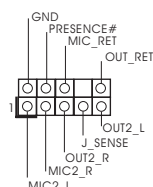
(25-pin LPT1)
(see p.2 or 3 No. 14)



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 or 3, No. 17)



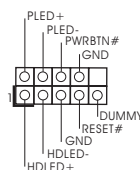
This is an interface for the front panel audio cable that allows convenient connection and control of audio devices.



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.

System Panel Header

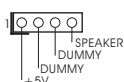
(9-pin PANEL1)
(see p.2 or 3 No. 15)



This header accommodates several system front panel functions.

Chassis Speaker Header

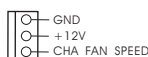
(4-pin SPEAKER 1)
(see p.2 or 3 No. 16)



Please connect the chassis speaker to this header.

Chassis Fan Connector

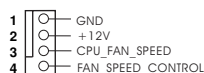
(3-pin CHA_FAN1)
(see p.2 or 3 No. 10)



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 or 3 No. 1)



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

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.

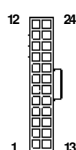
Pin 1-3 Connected ←

3-Pin Fan Installation



ATX Power Connector

(24-pin ATXPWR1)
(see p.2 or 3 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

(8-pin ATX12V1)
(see p.2 or 3 No. 2)



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.



Though this motherboard provides 8-pin ATX 12V power connector, it can still work if you adopt a traditional 4-pin ATX 12V power supply. To use the 4-pin ATX power supply, please plug your power supply along with Pin 1 and Pin 5.

4-Pin ATX 12V Power Supply Installation



Chassis Intrusion Header

(2-pin CI1)
(see p.2 or 3 No. 11)



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.

Spezifikationen

Plattform	- Micro ATX-Formfaktor - Feststoffkondensator-Design
CPU	- 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 - 4 + 1-Stromphasendesign - 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	- 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	- 1 x PCI Express x16-Steckplätze - 1 x PCI Express x1-Steckplätze - 1 x PCI -Steckplätze
Onboard-VGA	- Integrierter NVIDIA® GeForce 7025 Grafikchip - 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	- 7.1 CH HD Audio (Realtek ALC887 Audio Codec) * Zur Konfiguration von 7.1-Kanal-HD-Audio müssen Sie ein HD-Frontblenden-Audiomodul nutzen und den Mehrkanalton über den Audiotreiber aktivieren. - Unterstützt Überspannungsschutz (ASRock Full Spike Protection) - ELNA-Audiokondensatoren
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Unterstützt Wake-On-LAN - Unterstützt Blitzschutz/Schutz gegen elektrostatische Entladung (ASRock Full Spike Protection)

Deutsch

	- Unterstützt energieeffizientes Ethernet 802.3az - Unterstützt PXE
E/A-Anschlüsse an der Rückseite	N68-GS4/USB3 FX R2.0: - 1 x PS/2-Mausanschluss - 1 x PS/2-Tastaturanschluss - 1 x Serieller port: COM1 - 1 x D-Sub port - 2 x Standard-USB 2.0-Anschlüsse (unterstützt Schutz gegen elektrostatische Entladung (ASRock Full Spike Protection)) - 2 x Standard-USB 3.0-Anschlüsse (Etron EJ188H) (PCIE GEN1) (unterstützt Schutz gegen elektrostatische Entladung (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED) - HD Audiobuchse: Audioeingang / Lautsprecher vorne / Mikrofon
E/A-Anschlüsse an der Rückseite	N68-GS4 FX R2.0: - 1 x PS/2-Mausanschluss - 1 x PS/2-Tastaturanschluss - 1 x Serieller port: COM1 - 1 x D-Sub port - 4 x Standard-USB 2.0-Anschlüsse (unterstützt Schutz gegen elektrostatische Entladung (ASRock Full Spike Protection)) - 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 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 8-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) (unterstützt Schutz gegen elektrostatische Entladung (ASRock Full Spike Protection)) - 1 x Etron EJ188H USB 3.0-Anschlüsse (PCIE GEN1) (Unterstützung 2 zusätzlicher USB 3.0-Anschlüsse) (unterstützt Schutz gegen elektrostatische Entladung (ASRock Full Spike Protection)) (N68-GS4/USB3 FX R2.0)

BIOS	- AMI legal BIOS - Unterstützung für "Plug and Play" - ACPI 1.1-Weckfunktionen - JumperFree-Modus - SMBIOS 2.3.1 - CPU, VCCM, NB Stromspannung Multianpassung
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® 10 32-Bit / 10 64-Bit / 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 - Conception a condensateurs solides
CPU	- 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 - Conception 4 + 1 Power Phase - 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	- Compatible avec la Technologie de Mémoire à Canal Double - 2 x slots DIMM DDR3 - Supporter DDR3 1866/1600/1333/1066 non-ECC, sans amortissement mémoire - Capacité maxi de mémoire système: 16GB
Slot d'extension	- 1 x slot PCI Express x16 - 1 x slot PCI Express x1 - 1 x slot PCI
VGA sur carte	- 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	- 7.1 Son haute définition de CH (codec audio Realtek ALC887) * Pour configurer l'audio 7.1 CH HD, il est nécessaire d'utiliser un module audio HD pour panneau frontal et d'activer la fonction audio multicanal via le pilote audio. - Protection contre les surtensions (Protection complete contre les pics ASRock) - Capuchons ELNA Audio
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Support du Wake-On-LAN - Protection contre les orages/decharges electrostatiques (Protection complete contre les pics ASRock)

	- Prend en charge la fonction d'économie d'énergie Ethernet 802.3az - Support du PXE
Panneau arrière E/S	N68-GS4/USB3 FX R2.0: - 1 x port souris PS/2 - 1 x port clavier PS/2 - 1 x port série: COM1 - 1 x port D-Sub - 2 x ports USB 2.0 par défaut (Protection contre les décharges électrostatiques (Protection complète contre les pics ASRock)) - 2 x ports USB 3.0 par défaut (Etron EJ188H) (PCIe GEN1) (Protection contre les décharges électrostatiques (Protection complète contre les pics ASRock)) - 1 x port LAN RJ-45 avec LED (ACT/LED CLIGNOTANTE et LED VITESSE) - Prise HD Audio: Entrée Ligne / Haut-parleur frontal / Microphone
Panneau arrière E/S	N68-GS4 FX R2.0: - 1 x port souris PS/2 - 1 x port clavier PS/2 - 1 x port série: COM1 - 1 x port D-Sub - 4 x ports USB 2.0 par défaut (Protection contre les décharges électrostatiques (Protection complète contre les pics ASRock)) - 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 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. 8 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) (Protection contre les décharges électrostatiques (Protection complète contre les pics ASRock))

	- 1 x En-tête Etron EJ188H USB 3.0 (PCIE GEN1) (prendre en charge 2 ports USB 3.0 supplémentaires) (Protection contre les décharges électrostatiques (Protection complète contre les pics ASRock)) (N68-GS4/USB3 FX R2.0)
BIOS	- BIOS AMI - Support du "Plug and Play" - Compatible pour événements de réveil ACPI 1.1 - Gestion jumperless - Support SMBIOS 2.3.1 - CPU, VCCM, NB Tension Multi-ajustement
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® 10 32-bit / 10 64-bit / 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 - Design condensatore solido
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 - Struttura di fase con alimentazione 4 + 1 - 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 - 1 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	- 7.1 Audio HD CH (Realtek ALC887 Audio Codec) * Per configurare l'audio HD 7.1 canali, è necessario utilizzare un modulo pannello frontale audio HD ed attivare la funzione audio multicanale tramite il driver audio. - Supporto protezione da sovratensione (protezione completa ASRock dai picchi di corrente) - Cappucci audio ELNA
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Supporta Wake-On-LAN - Supporto la protezione da fulmini/scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente) - Supporta Energy Efficient Ethernet 802.3az

	- Supporta PXE
Pannello posteriore I/O	N68-GS4/USB3 FX R2.0: - 1 x Porta PS/2 per mouse - 1 x Porta PS/2 per tastiera - 1 x Porta COM - 1 x Porta D-Sub - 2 x Porte USB 2.0 già integrate (supporto protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente)) - 2 x Porte USB 3.0 già integrate (Etron EJ188H) (PCIe GEN1) (supporto protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente)) - 1 x porta LAN RJ-45 con LED (ACT/LINK LED e SPEED LED) - Connettore HD Audio: ingresso linea / cassa frontale / microfono
Pannello posteriore I/O	N68-GS4 FX R2.0: - 1 x Porta PS/2 per mouse - 1 x Porta PS/2 per tastiera - 1 x Porta COM - 1 x Porta D-Sub - 4 x Porte USB 2.0 già integrate (supporto protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente)) - 1 x porta LAN RJ-45 con LED (ACT/LINK LED e SPEED LED) - Connettore HD Audio: ingresso linea / cassa frontale / microfono
Archiviazione	- 4 x connettori SATA2 3.0Go/s, supporta RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ e "Collegamento a caldo"
Connettori	- 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 8-pin connettore ATX 12V - 1 x Connettore audio sul pannello frontale - 2 x Collettore USB 2.0 (supporta 4 porte USB 2.0) (supporto protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente)) - 1 x Collettore Etron EJ188H USB 3.0 (PCIe GEN1) (supporta 2 porte USB 3.0) (supporto protezione da scariche elettrostatiche (ESD) (protezione completa ASRock dai picchi di corrente)) (N68-GS4/USB3 FX R2.0)

BIOS	- Supporto AMI legal BIOS - Supporto "Plug and Play" - Compatibile con ACPI 1.1 wake up events - Supporto jumperfree - Supporto SMBIOS 2.3.1 - Regolazione multi-voltaggio CPU, VCCM, NB
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 - Ventola CPU silenziosa - Rilevamento CASE APERTO - Voltaggio: +12V, +5V, +3.3V, Vcore
Compatibilità SO	- Microsoft® Windows® 10 32 bit / 10 64 bit / 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	- 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 - Diseño de condensador sólido
Procesador	- 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 núcleos - Diseño de fases de potencia 4 + 1 - 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	- 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	- 1 x ranura PCI Express x16 - 1 x ranura PCI Express x1 - 1 x ranura PCI
VGA OnBoard	- 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 7.1 Canales (Códec de sonido Realtek ALC887) * Para configurar 7.1 Audio CH HD, deberá utilizar un módulo del panel frontal de audio HD y habilitar la característica de audio multicanal a través del controlador de audio. - Compatible con protección por sobretensión (protección ASRock Full Spike) - Tapas de audio ELNA
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Soporta Wake-On-LAN - Compatible con protección contra rayos y electricidad electrostática (protección ASRock Full Spike)

	- Compatible con Ethernet de consumo eficiente de energía 802.3az - Soporta PXE
Entrada/Salida de Panel Trasero	N68-GS4/USB3 FX R2.0: - 1 x puerto de ratón PS/2 - 1 x puerto de teclado PS/2 - 1 x puerto serial: COM1 - 1 x puerto D-Sub - 2 x puertos USB 2.0 predeterminados (compatible con protección contra electricidad estática (protección ASRock Full Spike)) - 2 x puertos USB 3.0 predeterminados (Etron EJ188H) (PCIe GEN1) (compatible con protección contra electricidad estática (protección ASRock Full Spike)) - 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
Entrada/Salida de Panel Trasero	N68-GS4 FX R2.0: - 1 x puerto de ratón PS/2 - 1 x puerto de teclado PS/2 - 1 x puerto serial: COM1 - 1 x puerto D-Sub - 4 x puertos USB 2.0 predeterminados (compatible con protección contra electricidad estática (protección ASRock Full Spike)) - 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	- 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	- 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 8-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) (compatible con protección contra electricidad estática (protección ASRock Full Spike)) - 1 x Cabezal Etron EJ188H USB 3.0 (PCIe GEN1) (admite 2 puertos USB 3.0 adicionales) (compatible con protección contra electricidad estática (protección ASRock Full Spike)) (N68-GS4/USB3 FX R2.0)
BIOS	- 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, NB voltage
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 - Control de APERTURA DE CARCASA - Monitor de Voltaje: +12V, +5V, +3.3V, Vcore
OS	- En conformidad con Microsoft® Windows® 10 32 bits / 10 64 bits / 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>

Спецификации

Платформа	- форм-фактор Micro ATX - Твердый Конденсаторный проект
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 - Технология 4 + 1 Power Phase Design - 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 - 1 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	- 7.1-канальный звук HD Audio уровня (аудиокодек Realtek ALC887) * Для настройки 7.1-канального звук высокой четкости HD Audio используйте переднюю аудиопанель HD и активируйте функцию многоканального звука в аудиодрайвере. - Защита от перенапряжения (ASRock Full Spike Protection) - Конденсаторы для аудиосистем ELNA
ЛВС	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - поддержка Wake-On-LAN - Молниезащита и защита электростатического напряжения (ASRock Full Spike Protection) - Поддержка Energy Efficient Ethernet 802.3az - поддержка PXE
Разъемы ввода-вывода на задней панели	N68-GS4/USB3 FX R2.0: - 1 x порт мыши PS/2 - 1 x порт клавиатуры PS/2 - 1 x порт COM1

	- 1 x D-Sub порт - 2 x порта USB 2.0 на задней панели в стандартной конфигурации с защитой от электростатического напряжения (ASRock Full Spike Protection) - 2 x порта USB 3.0 на задней панели в стандартной конфигурации с защитой от электростатического напряжения (ASRock Full Spike Protection)) (Etron EJ188H) (PCIe GEN1) - Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор ACT/LINK и индикатор SPEED) - Аудиоразъемы: линейный вход / линейный выход / микрофон
Разъемы ввода-вывода на задней панели	N68-GS4 FX R2.0: - 1 x порт мыши PS/2 - 1 x порт клавиатуры PS/2 - 1 x порт COM1 - 1 x D-Sub порт - 4 x порта USB 2.0 на задней панели в стандартной конфигурации с защитой от электростатического напряжения (ASRock Full Spike Protection) - Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор ACT/LINK и индикатор SPEED) - Аудиоразъемы: линейный вход / линейный выход / микрофон
Запоминающие устройства	- 4 x разъемы 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	- 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 8-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) с защитой от электростатического напряжения (ASRock Full Spike Protection) - 1 x Колодка Etron EJ188H USB 3.0 (одна колодка для поддержки 2 дополнительных портов USB 3.0) с защитой от электростатического напряжения (ASRock Full Spike Protection) (PCIe GEN1) (N68-GS4/USB3 FX R2.0)
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, NB Мультирегулирование Напряжения
Контроль оборудования	- 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	- Совместимость с Microsoft® Windows® 10 32-bit / 10 64-bit / 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	- 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>

Especificações

Plataforma	- Formato Micro ATX - Design de condensador solido
CPU	- 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 - Alimentacao de 4 + 1 fases - 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	- 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	- 1 x slot de PCI Express x16 - 1 x slot de PCI Express x1 - 1 x slot de PCI
VGA integrado	- 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 7.1 (Codec de áudio Realtek ALC887) * Para configurar Audio 7.1 CH HD, e necessario usar um modulo de audio de painel frontal HD e habilitar o recurso de audio multi-canal pelo driver de audio. - Suporta protecao contra sobretensao (Protecao Total Contra Picos ASRock) - Fones de Audio ELNA
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Suporta Wake-On-LAN

	- Suporta Protecção contra Relâmpago/EDS (Protecção Total Contra Picos ASRock) - Suporta Energy Efficient Ethernet 802.3az - Suporta PXE
Entrada/Saída pelo painel traseiro	N68-GS4/USB3 FX R2.0: - 1 x porta para mouse PS/2 - 1 x porta para teclado PS/2 - 1 x porta COM1 - 1 x porta D-Sub - 2 x portas USB 2.0 padrão (Suporta Protecção ESD (Protecção Total Contra Picos ASRock)) - 2 x portas USB 3.0 padrão (Etron EJ188H) (PCIe GEN1) (Suporta Protecção ESD (Protecção Total Contra Picos ASRock)) - 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE) - HD Áudio Jack: Entrada de linha / Altifalante frontal / Microfone
Entrada/Saída pelo painel traseiro	N68-GS4 FX R2.0: - 1 x porta para mouse PS/2 - 1 x porta para teclado PS/2 - 1 x porta COM1 - 1 x porta D-Sub - 4 x portas USB 2.0 padrão (Suporta Protecção ESD (Protecção Total Contra Picos ASRock)) - 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	- 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 8 pinos - 1 x Conector Áudio do painel frontal - 2 x cabeçal USB 2.0 (suportar 4 portas USB 2.0 adicionais) (Suporta Protecção ESD (Protecção Total Contra Picos ASRock))

	- 1 x cabezal Etron EJ188H USB 3.0 (PCI-E GEN1) (suportar 2 portas USB 3.0 adicionais) (Suporta Protecção ESD (Protecção Total Contra Picos ASRock)) (N68-GS4/USB3 FX R2.0)
BIOS	- 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, NB
Monitor do HW	- 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® 10 32-bit / 10 64-bit / 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 - Yekpare Kapasitör tasarımı
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 - 4 + 1 Güç Fazı Tasarımı - 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 - 1 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	- 7,1 Kanal HD Ses (Realtek ALC887 Ses Codec'i) * 7.1 CH HD Ses konfigürasyonu için bir HD ön panel ses modülü kullanılmalı ve çok kanallı ses özelliği ses sürücüsü ile etkinleştirilmelidir. - Dalgalanma Koruması Destekler (ASRock Tam Ani Gerilim Koruması) - ELNA Ses Kapakları
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - LAN'da Uyan özelliğini destekler - Yıldırım/ESD Koruması Destekler (ASRock Tam Ani Gerilim Koruması) - Enerji Verimliliğine Sahip Ethernet 802.3az işlevini destekler - PXE destekler

Arka Panel G/C	N68-GS4/USB3 FX R2.0: - 1 x PS/2 Fare Portu - 1 x PS/2 Klavye Portu - 1 x Seri Port: COM1 - 1 x D-Sub Portu - 2 x Kullanıma Hazır USB 2.0 Portu (ESD Koruması Destekler (ASRock Tam Ani Gerilim Koruması)) - 2 x Kullanıma Hazır USB 3.0 Portu (Etron EJ188H) (PCIE GEN1) (ESD Koruması Destekler (ASRock Tam Ani Gerilim Koruması)) - 1 x RJ-45 LAN Portu, LED'li (AKT/LINK LED'i ve HIZ LED'i) - HD Ses Jakı: Hat girişi / Ön Hoparlör / Mikrofon
Arka Panel G/C	N68-GS4 FX R2.0: - 1 x PS/2 Fare Portu - 1 x PS/2 Klavye Portu - 1 x Seri Port: COM1 - 1 x D-Sub Portu - 4 x Kullanıma Hazır USB 2.0 Portu (ESD Koruması Destekler (ASRock Tam Ani Gerilim Koruması)) - 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	- 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 8 pin 12V güç konektörü - 1 x Ön panel ses fişi - 2 x USB 2.0 fiş (4 USB 2.0 portu destekler) (ESD Koruması Destekler (ASRock Tam Ani Gerilim Koruması)) - 1 x Etron EJ188H USB 3.0 fiş (PCIE GEN1) (2 USB 3.0 portu destekler) (ESD Koruması Destekler (ASRock Tam Ani Gerilim Koruması)) (N68-GS4/USB3 FX R2.0)
BIOS Özelliği	- AMI Legal BIOS - "Tak Çalıştır"ı destekler - ACPI 1.1 Uyumlu Uyandırma Olayları - Jumpersız destekler - SMBIOS 2.3.1 Desteği - CPU, VCCM, NB gerilim çok ayarı

Donanım Monitör	- 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® 10 32-bit / 10 64-bit / 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	- 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 - 솔리드 콘덴서 구조
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 - 4 + 1 전원 위상 디자인 - UCC (Unlock CPU Core) 지원 - AMD의 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	- 1 개의 PCI Express x16 슬롯 - 1 개의 PCI Express x1 슬롯 - 1 개의 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	- 7.1CH HD 오디오 (Realtek ALC887 오디오 코덱) * 7.1 CH HD 오디오를 구성하려면 HD 전면 패널 오디오 모듈을 사용하고 다채널 오디오 기능을 오디오 드라이버로 활성화해야 합니다. - 서지 보호 지원 (ASRock 폴 스파이크 보호) - ELNA 오디오 컵
랜	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - 웨이크 - 온 - 랜 지원 - 번개/ESD 보호 지원 (ASRock 폴 스파이크 보호) - 절전형 이더넷 802.3az 지원 - PXE 지원
후면판 I/O	- N68-GS4/USB3 FX R2.0: - 1개 PS/2 마우스 포트

	- 1개PS/2 키보드 포트 - 1개의 COM1 - 1개의 D-Sub - 2개디폴트 USB 2.0 포트 (ESD 보호 지원(ASRock 폴 스파이크 보호)) - 2개디폴트 USB 2.0 포트 (Etron EJ188H) (PCIE GEN1) (ESD 보호 지원(ASRock 폴 스파이크 보호)) - 1개LED(ACT/LINK LED 및 SPEED LED)가 있는 RJ-45 LAN 포트 - 오디오 잭: 라인 인 / 전방 스피커 / 마이크
후면판 I/O	N68-GS4 FX R2.0: - 1개PS/2 마우스 포트 - 1개PS/2 키보드 포트 - 1개의 COM1 - 1개의 D-Sub - 4개디폴트 USB 2.0 포트 (ESD 보호 지원(ASRock 폴 스파이크 보호)) - 1개LED(ACT/LINK LED 및 SPEED LED)가 있는 RJ-45 LAN 포트 - 오디오 잭: 라인 인 / 전방 스피커 / 마이크
저장 장치	- 4개의 SATA2 3.0Gb/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	- 프린트 포트 헤더 1개 - 새시 침입 헤더 1개 - CPU 팬 커넥터 1개 (4핀) - 새시 팬 커넥터 1개 (3핀) - 24 핀 ATX 전원 헤더 1개 - 8핀 ATX 12V 파워 콘넥터 1개 - 전면부 오디오 콘넥터 1개 - USB 2.0 헤더 2개 (4개의 추가 USB 2.0 포트를 지원하는 헤더 2개) (ESD 보호 지원(ASRock 폴 스파이크 보호)) - Etron EJ188H USB 3.0 헤더 1개 (PCIE GEN1) (2개의 추가 USB 3.0 포트를 지원하는 헤더 2개) (ESD 보호 지원(ASRock 폴 스파이크 보호)) (N68-GS4/USB3 FX R2.0)
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, NB전압 멀티 조절

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 - 케이스 열림 감지 - 전압 감시 기능 : +12V,+5V,+3.3V,Vcore
OS	- 마이크로 소프트 Windows® 10 32 비트/10 64 비트/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	- 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 - 固体コンデンサ設計
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 - 4 + 1電源位相設計 - 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 - 1 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 256MB - 1920x1440 @ 60Hz の最大解像度で D-Sub をサポート
オーディオ	- 7.1 CH HD オーディオ (Realtek ALC887 オーディオコーデック) * 7.1 CH HD オーディオを設定するためには、HD フロントパネルのオーディオモジュールを使用し、オーディオドライバを通してマルチチャンネルオーディオ機能を有効にする必要があります。 - サージ保護に対応 (ASRock 完全スパイク保護) - ELNA 製オーディオコンデンサ
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Wake-On-LANをサポート - 雷 / 静電気放電 (ESD) 保護に対応 (ASRock 完全スパイク保護)

	- 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
リアパネル I/O	N68-GS4/USB3 FX R2.0: - 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 - D-Subポート x 1 - USB 2.0ポート x 2 (静電気放電(ESD)保護に対応 (ASRock 完全スパイク保護)) - USB 3.0ポート x 2 (Etron EJ188H) (PCIe GEN1) (静電気放電(ESD)保護に対応(ASRock 完全スパイク保護)) - 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
リアパネル I/O	N68-GS4 FX R2.0: - 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 - D-Subポート x 1 - USB 2.0ポート x 4 (静電気放電(ESD)保護に対応 (ASRock 完全スパイク保護)) - 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	- 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	- 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 - 8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 - 静電気放電(ESD)保護に対応(ASRock 完全スパイク保護))

	- Etron EJ188H USB 3.0 ヘッダー(PCIE GEN1)(USB 3.0用 2ポートをサポート) x 1 (静電気放電(ESD) 保護に対応(ASRock 完全スパイク保護)) (N68-GS4/USB3 FX R2.0)
BIOS 関連機能	- 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、NBブリッジ電圧
モニター	- 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® 10 32-bit/10 64-bit/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 - 固态电容器设计
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 - 4 + 1 电源相位设计 - 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 - 1 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	- 7.1 声道高保真音频 (Realtek ALC887 音频编解码器) * 要配置 7.1 声道高保真音频, 需要使用高清前面板模块和通过音频驱动程序启用多通道音频功能 - 支持电涌保护 (华擎全防护) - ELNA 音频电容
板载 LAN 功能	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - 支持网路唤醒 (Wake-On-LAN) - 支持雷电 / ESD 保护 (华擎全防护) - 支持高能效以太网 802.3az - 支持 PXE

Rear Panel I/O (后面板输入 / 输出接口)	N68-GS4/USB3 FX R2.0: - 1 个 PS/2 鼠标接口 - 1 个 PS/2 键盘接口 - 1 个 串行接口 - 1 个 D-Sub 接口 - 2 个 USB 2.0 接口 (支持 ESD 保护 (华擎全防护)) - 2 个 USB 3.0 接口 (Etron EJ188H) (PCIe GEN1) (支持 ESD 保护 (华擎全防护)) - 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
Rear Panel I/O (后面板输入 / 输出接口)	N68-GS4 FX R2.0: - 1 个 PS/2 鼠标接口 - 1 个 PS/2 键盘接口 - 1 个 串行接口 - 1 个 D-Sub 接口 - 4 个 USB 2.0 接口 (支持 ESD 保护 (华擎全防护)) - 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	- 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	- 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 8 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) (支持 ESD 保护 (华擎全防护)) - 1 x Etron EJ188H USB 3.0 接口 (PCIe GEN1) (可支持 2 个额外的 USB 3.0 接口) (支持 ESD 保护 (华擎全防护))
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, NB 电压多功能调节器

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 - 机箱开启侦测 - 电压范围: +12V, +5V, +3.3V, 核心电压
操作系统	- Microsoft® Windows® 10 32 位元/10 64 位元/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	- 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 - 固態電容設計
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 - 4 + 1 電源相位設計 - 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 - 1 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	- 7.1 聲道高清晰音效(Realtek ALC887 音效編解碼器) * 若要設定 7.1 CH HD 音訊, 必須使用 HD 前面板音訊模組, 並透過音訊驅動程式啟用多聲道音訊功能。 - 支援突波保護 (華擎全防護技術) - ELNA 音響級電容
網路功能	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - 支援網路喚醒 (Wake-On-LAN) - 支援雷擊/靜電保護 (華擎全防護技術) - 支援 Energy Efficient Ethernet 802.3az - 支援 PXE

Rear Panel I/O (後背板輸入 / 輸出接口)	N68-GS4/USB3 FX R2.0: - 1 個 PS/2 滑鼠接口 - 1 個 PS/2 鍵盤接口 - 1 個 COM 接口 - 1 個 D-Sub 接口 - 2 個 USB 2.0 接口 (支援靜電保護 (華擎全防護技術)) - 2 個 USB 3.0 接口 (Etron EJ188H)(PCIe GEN1)(支援靜電保護 (華擎全防護技術)) - 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
Rear Panel I/O (後背板輸入 / 輸出接口)	N68-GS4 FX R2.0: - 1 個 PS/2 滑鼠接口 - 1 個 PS/2 鍵盤接口 - 1 個 COM 接口 - 1 個 D-Sub 接口 - 4 個 USB 2.0 接口 (支援靜電保護 (華擎全防護技術)) - 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	- 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	- 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 8 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)(支援靜電保護 (華擎全防護技術)) - 1 x Etron EJ188H USB 3.0 接口 (PCIe GEN1)(可支持 2 個額外的 USB 3.0 接口)(支援靜電保護 (華擎全防護技術))
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, NB 電壓多功能調節器

硬體監控器	- 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	- Microsoft® Windows® 10 32 位元/10 64 位元/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	- 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 - Desain Kapasitor Solid
CPU	- Stopkontak AM3+ - Stopkontak AM3 untuk AMD Phenom™ II X6 / X4 / X3 / X2 (kecuali 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processor - Dukungan CPUP Delapan Inti - Desain daya 4 + 1 fase - 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 - 1 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	- 7.1 CH HD Audio (Realtek ALC887 Audio Codec) * Untuk mengkonfigurasi Audio HD 7.1 CH, modul audio panel depan HD harus digunakan dan fitur audio multisaluran harus diaktifkan melalui driver audio. - Mendukung Perlindungan Lonjakan Arus (ASRock Full Spike Protection) - ELNA Audio Caps
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211E - Menggunakan Wake-On-LAN - Mendukung Perlindungan Petir/ESD (ASRock Full Spike Protection) - Mendukung Energy Efficient Ethernet 802.3az - Menggunakan PXE

Papan Belakang I/O	N68-GS4/USB3 FX R2.0: - 1 x Port Mouse PS/2 - 1 x Port Keyboard PS/2 - 1 x Port Serial: COM1 - 1 x Port D-Sub - 2 x Port USB 2.0 (Mendukung Perlindungan ESD (ASRock Full Spike Protection)) - 2 x Port USB 3.0 (Etron EJ188H) (PCIE GEN1) (Mendukung Perlindungan ESD (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port LED (ACT/LINK LED dan SPEED LED) - HD Audio Jack: Line in/Penyuar Depan/mikropon
Papan Belakang I/O	N68-GS4 FX R2.0: - 1 x Port Mouse PS/2 - 1 x Port Keyboard PS/2 - 1 x Port Serial: COM1 - 1 x Port D-Sub - 4 x Port USB 2.0 (Mendukung Perlindungan ESD (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port LED (ACT/LINK LED dan SPEED LED) - HD Audio Jack: Line in/Penyuar 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	- 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 8 pin 12V - 1 x Penghubung audio panel depan - 2 x USB 2.0 header (menggunakan 4 port USB 2.0) (Mendukung Perlindungan ESD (ASRock Full Spike Protection)) - 1 x Etron EJ188H USB 3.0 header (PCIE GEN1) (menggunakan 2 port USB 3.0) (Mendukung Perlindungan ESD (ASRock Full Spike Protection))
Ciri-ciri 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, NB

Penjaga Hardware	- 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® 10 32-bit / 10 64-bit / 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	- FCC, CE, WHQL - ErP/EuP Hazır (ErP/EuP hazır güç kaynağı gerekli)

* Untuk informasi tentang produk rinci, kunjungi situs web kami: <http://www.asrock.com>

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>

ASRock Incorporation

2F., No.37, Sec. 2, Jhongyang S. Rd., Beitou District,
Taipei City 112, Taiwan (R.O.C.)

ASRock EUROPE B.V.

Bijsterhuizen 1111

6546 AR Nijmegen

The Netherlands

Phone: +31-24-345-44-33

Fax: +31-24-345-44-38

ASRock America, Inc.

13848 Magnolia Ave, Chino, CA91710

U.S.A.

Phone: +1-909-590-8308

Fax: +1-909-590-1026



EC-Declaration of Conformity

For the following equipment:

Motherboard

(Product Name)

N68-GS4/USB3 FX R2.0 / N68-GS4 FX R2.0 / ASRock

(Model Designation / Trade Name)

ASRock Incorporation

(Manufacturer Name)

2F., No.37, Sec. 2, Jhongyang S. Rd., Beitou District, Taipei City 112, Taiwan (R.O.C.)

(Manufacturer Address)

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC) and Safety Directive (2006/95/EC), the following standards are applied:

- ☒ EN 55022: 2006+A1:2007
- ☒ EN 61000-3-2: 2009
- ☒ EN 61000-3-3: 2008
- ☒ EN 55024: 1998 + A1:2001 + A2:2003
 - IEC 61000-4-2: 2008;
 - IEC 61000-4-3: 2010; IEC 61000-4-4: 2010;
 - IEC 61000-4-5: 2005; IEC 61000-4-6: 2008;
 - IEC 61000-4-8: 2009; IEC 61000-4-11: 2004;
- ☒ EN 60950-1: 2005 + A1:2009
 - IEC 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011

The following manufacturer / importer or authorized representative established within the EUT is responsible for this declaration:

ASRock EUROPE B.V.

(Company Name)

Bijsterhuizen 1111 6546 AR Nijmegen The Netherlands

(Company Address)

Person responsible for making this declaration:

(Name, Surname)

A.V.P

(Position / Title)

Nov. 6, 2015

(Date)

P/N: 15G06X924000AK V1.0