

# N68C-SE

NVIDIA® GeForce 7025 / nForce 630a Chipset

**ASRock**  
www.asrock.com



## Product Brief <<<

- Hyper Transport 2000 MT/s
- Supports 2 x DDR 3 1600 / 2 x DDR 2 1066
- Integrated NVIDIA® GeForce 7025 graphics, DX9.0 VGA, Pixel Shader 3.0, Max. shared memory 256MB
- Supports ASRock Instant Boot, Instant Flash, OC DNA ASRock OC Tuner (Up to 150% CPU frequency increase)
- Supports Intelligent Energy Saver (Up to 15% CPU Power Saving)
- Free Bundle : CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial
- EuP Ready

## Detail Specification <<<

<b>Platform</b>	- Micro ATX Form Factor: 9.6-in x 8.2-in, 24.4 cm x 20.8 cm
<b>CPU</b>	- Support for Socket AM2+ / AM2 processors: AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core / Athlon X2 Dual-Core / Athlon 64 / Sempron processor - Support for AM3 processors: AMD Phenom™ II X4 / X3 / X2 and Athlon II X4 / X3 / X2 processors - Supports AMD's Cool 'n' Quiet Technology - FSB 1000 MHz (2.0 GT/s) - Supports Untied Overclocking Technology - Supports Hyper-Transport Technology
<b>Chipset</b>	- NVIDIA® GeForce 7025 / nForce 630a
<b>Memory</b>	- Dual Channel DDR3/DDR2 memory technology - 2 x DDR3 DIMM slots - Supports DDR3 1600/1333/1066/800 non-ECC, un-buffered memory - Max. capacity of system memory: 8GB - 2 x DDR2 DIMM slots - Supports DDR2 1066/800/667/533 non-ECC, un-buffered memory - Max. capacity of system memory: 8GB
<b>Expansion Slot</b>	- 1 x PCI Express x16 slot - 1 x PCI Express x1 slot - 2 x PCI slots
<b>Graphics</b>	- 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
<b>Audio</b>	- 5.1 CH HD Audio (VIA® VT1705 Audio Codec)
<b>LAN</b>	- Realtek PHY RTL8201EL - Speed: 10/100 Ethernet - Supports Wake-On-LAN
<b>Rear Panel I/O</b>	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 Ready-to-Use USB 2.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Line in / Front Speaker / Microphone
<b>Connector</b>	- 4 x Serial ATA1 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 0+1, RAID 5 and JBOD), NCQ and "Hot Plug" functions - 1 x ATA133 IDE connector (supports 2 x IDE devices) - 1 x Floppy connector - 1 x Print Port header - CPU/Chassis/Power FAN connector - 24 pin ATX power connector - 4 pin 12V power connector - CD in header - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports)
<b>BIOS Feature</b>	- 8Mb AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - CPU, VCCM, NB Voltage Multi-adjustment
<b>Support CD</b>	- Drivers, Utilities, AntiVirus Software (Trial Version), ASRock Software Suite (CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial)
<b>Unique Feature</b>	- ASRock OC Tuner - Intelligent Energy Saver - Instant Boot - ASRock Instant Flash - ASRock OC DNA - Hybrid Booster: - CPU Frequency Stepless Control - ASRock U-COP - Boot Failure Guard (B.F.G.) - ASRock AM2 Boost: ASRock Patented Technology to boost memory performance up to 12.5%
<b>Hardware Monitor</b>	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
<b>OS</b>	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant
<b>Certifications</b>	- FCC, CE, WHQL - EuP Ready (EuP ready power supply is required)
<b>Accessories</b>	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA data cables (optional)

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

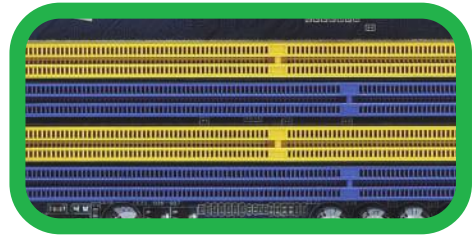
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## DDR2 / DDR3 Combo Design

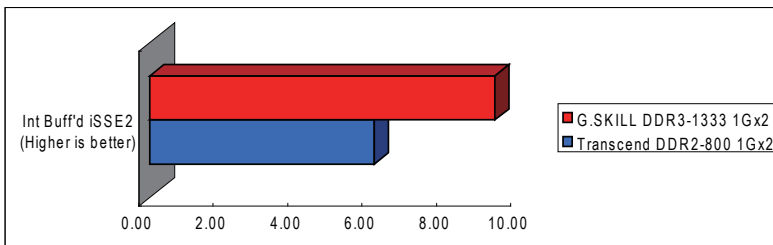
DDR2 1066 / DDR3 1600



### DDR2 vs DDR3 Memory Performance Comparison

Model	N68C-SE	
CPU	Athlon II X4 630	
RAM	Transcend DDR2-800 1Gx2	G.SKILL DDR3-1333 1Gx2
OS	Windows 7	
HDD	WD 250G	

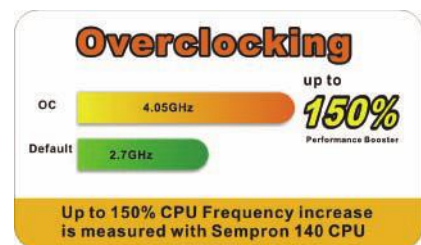
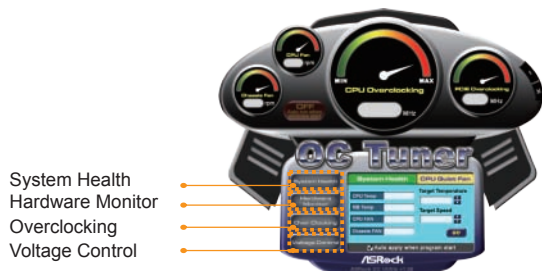
Sandra 2009 Memory bandwidth	Transcend DDR2-800 1Gx2	G.SKILL DDR3-1333 1Gx2
Int Buff'd iSSE2 (Higher is better)	8.41 GB/s	9.29 GB/s
Float Buff'd iSSE2 (Higher is better)	8.41 GB/s	9.3 GB/s



**With DDR3, memory bandwidth boost up more than 10.5%**

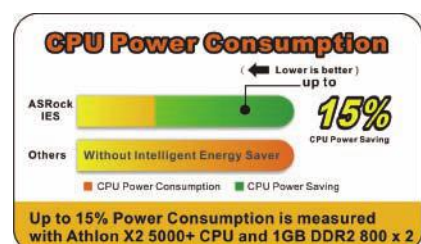
### ASRock OC Tuner:

ASRock OC Tuner is a user-friendly and untied tool which allows you to guard your system by hardware monitor function and overclock your hardware devices to get the best system performance



### Energy Saving :

Supports ASRock Intelligent Energy Saver (I.E.S)



CPU Power saving up to 15%

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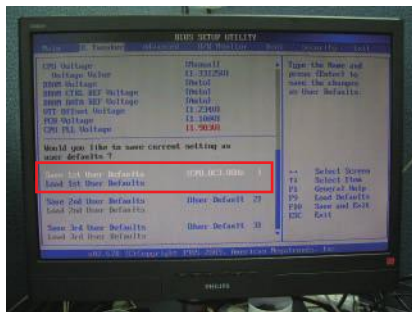
## OC DNA

Save your OC settings as a profile and share with friends. Try OC DNA now!

## OC DNA Instruction

### Step 1

Save your BIOS OC settings as User Default in BIOS OC Tweaker menu. (For example: we name this User Default setting as "CPU\_OC3.8GHz")



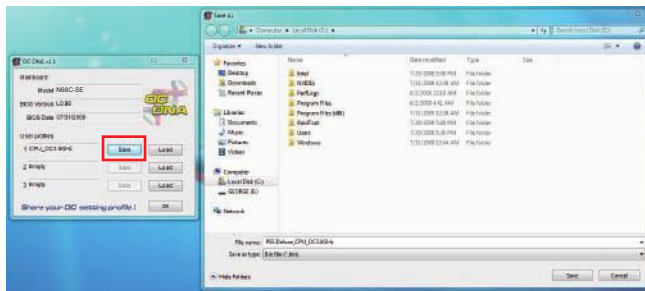
### Step 2

Execute ASRock OC DNA under OS, you will find "CPU\_OC3.8GHz" as User Profile 1.



### Step 3

Press "Save" button to save the "CPU\_OC3.8GHz" OC settings as a profile.



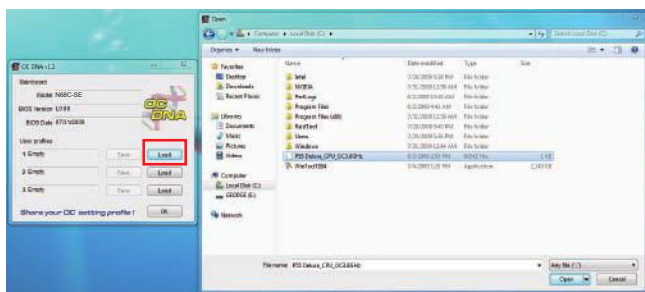
### Step 4

Send the "CPU\_OC3.8GHz" profile to other friends.



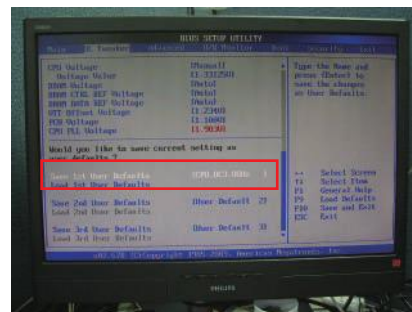
### Step 5

When the friend receives your "CPU\_OC3.8GHz" profile, he can press "Load" to load the "CPU\_OC3.8GHz" profile in OC DNA.



### Step 6

After that, the friend can enter into BIOS OC Tweaker menu to load the "CPU\_OC3.8GHz" profile as his BIOS OC settings.



Now, you have successfully share your OC setting profile with your friends.

\*The OC DNA works only when users use the same motherboard and BIOS version.

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EuP Ready Motherboard



EuP Ready Power Supply



EuP System

## What is EuP?

EuP, stands for Energy Using Product, was a provision regulated by European Union to define the power consumption for the completed system. With the great quantity and the popularly using of the electrical products nowadays and the continuously increasing of the electrical products categories in the following 20 to 30 years, European Union decided to establish an effective strategy to solve the energy consumption problem. That is, according to EuP, the total AC power of the completed system shall be under 1.00W in off mode condition.

## ASRock Instant Boot



ASRock Instant Boot is a new feature invented exclusively by ASRock. It can boot up system in an amazing speed, which is 10 times faster than traditional boot up. For home users or office PC users, ASRock Instant Boot can also guarantee a clean Windows OS, and consumed less power! For details: <http://www.asrock.com/feature/InstantBoot/index.asp>

\* This function is applicable ONLY to single user that does not secure ID and Password to their systems.

\* The boot up time depends on the hardware configuration.

## 10 Times Faster, Only 4 Secs to Boot Up to Windows!

### ASRock YouTube

<http://tw.youtube.com/watch?v=BucljXZVxXo>



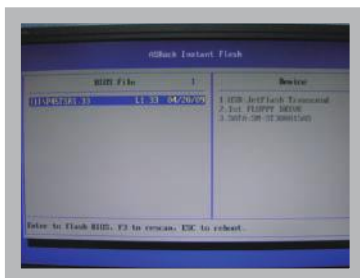
## ASRock Instant Flash

ASRock Instant Flash is an exclusive and the most user-friendly BIOS flash utility developed by ASRock. It is embedded in Flash ROM which is used to update the system BIOS without having to enter operating systems like MS-DOS or Windows.



### Features

Once executing ASRock Instant Flash, the utility will automatically detect all devices such as USB, hard disk or even floppy drive to find the exact BIOS for your system. Instead of giving you all BIOS in your devices, the Instant Flash just list BIOS versions that apply to your motherboard model only. For example, if you have many different BIOS of different motherboards saved in your devices, but you just need to flash your P45 motherboard, the Instant Flash will just list the P45 BIOS versions for you. This unique function allows you to easily select the suitable BIOS version instead of browsing through all data.



Instant Flash just list BIOS versions that apply to your motherboard model.

**Simple!**



Click and start Flashing!

**Quick!**

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**CyberLink**



## **CyberLink Power2Go 6.1 LE OEM**

Power2Go 6 lets you burn and backup videos, photos, music and data onto Blu-ray Discs and DVDs.

## **CyberLink MediaShow 4.1 SE OEM**

Photo and video management software MediaShow edits videos and photos instantly, creates slideshow, and allows publishing directly to YouTube and Flickr.

## **CyberLink PowerDVD 8.0 DTS Trial**

World-renowned PowerDVD 8 DTS delivers outstanding DVD movie playback quality on your PC.

## **CyberLink PowerDirector 8.0 Trial**

PowerDirector - Video Editing software – edits high-definition videos including AVCHD, allows output to PSP iPod and Blu-ray Disc.

## **CyberLink PowerBackup 2.5 Trial**

PowerBackup backups valuable data on your PC.

## **Creative Sound Blaster X-Fi MB Trial**

The Sound Blaster X-Fi MB solution provides premium audio quality, effects and features for PC systems equipped with onboard audio.

For gamers, the EAX® ADVANCED HD 4.0, with its state-of-the-art Multi-Environment rendering and reverb modelling, delivers a much more realistic and immersive 3D gaming experience than your motherboard audio ever will.