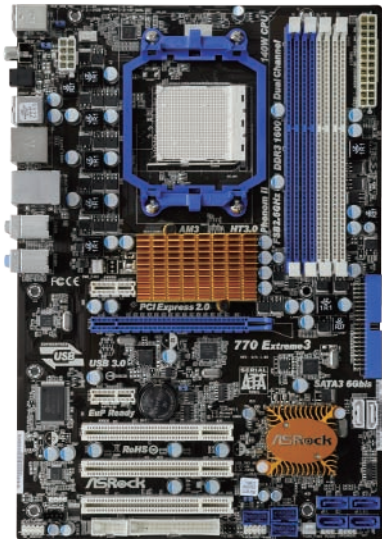


# 770 Extreme3

AMD 770 + SB710 Chipsets

**ASRock**  
www.asrock.com



## Product Brief <<<

- Six-Core CPU Ready
- ASRock DuraCap (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors
- Supports CPU up to 140W
- Supports AMD OverDrive™ with ACC feature (Advanced Clock Calibration)
- Supports Dual Channel DDR3 1600
- 2 x SATA3 6.0 Gb/s connectors, 1 x USB 3.0 port, 1 x eSATAII Connector, PCIE Gigabit LAN
- Supports ASRock Instant Boot, Instant Flash, OC Tuner, IES, OC DNA
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), Premium Blu-ray audio support
- ErP/EuP Ready
- Free Software: CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial

## Detail Specification <<<

|                         |   |
|-------------------------|---|
| <b>Platform</b>         | - ATX Form Factor: 12.0-in x 8.2-in, 30.5 cm x 20.8 cm<br>- All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)   |
| <b>CPU</b>              | - Support for Socket AM3 processors: AMD Phenom™ II X4 / X3 / X2 (except 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processors<br>- Six-Core CPU Ready<br>- Supports CPU up to 140W<br>- Supports AMD OverDrive™ with ACC feature (Advanced Clock Calibration)<br>- AMD LIVE!™ Ready<br>- Supports AMD's Cool 'n' Quiet Technology<br>- FSB 2600 MHz (5.2 GT/s)<br>- Supports Untied Overclocking Technology<br>- Supports Hyper-Transport 3.0 (HT 3.0) Technology   |
| <b>Chipset</b>          | - Northbridge: AMD 770<br>- Southbridge: AMD SB710  |
| <b>Memory</b>           | - Dual Channel DDR3 memory technology<br>- 4 x DDR3 DIMM slots<br>- Supports DDR3 1600/1333/1066/800 non-ECC, un-buffered memory<br>- Max. capacity of system memory: 16GB  |
| <b>Expansion Slot</b>   | - 1 x PCI Express 2.0 x16 slot (blue @ x16 mode)<br>- 2 x PCI Express 2.0 x1 slots<br>- 3 x PCI slots   |
| <b>Audio</b>            | - 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)<br>- Premium Blu-ray audio support   |
| <b>LAN</b>              | - PCIE x1 Gigabit LAN 10/100/1000 Mb/s<br>- Realtek RTL8111DL<br>- Supports Wake-On-LAN   |
| <b>Rear Panel I/O</b>   | I/O Panel<br>- 1 x PS/2 Mouse Port<br>- 1 x PS/2 Keyboard Port<br>- 1 x Coaxial SPDIF Out Port<br>- 1 x Optical SPDIF Out Port<br>- 5 x Ready-to-Use USB 2.0 Ports<br>- 1 x eSATAII Connector<br>- 1 x Ready-to-Use USB 3.0 Port<br>- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)<br>- HD Audio Jack: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone  |
| <b>SATA3</b>            | - 2 x SATA3 6.0 Gb/s connectors by Marvell SE9123, support NCQ, AHCI and "Hot Plug" functions   |
| <b>USB 3.0</b>          | - 1 x USB 3.0 port by Fresco FL1000G, supports USB 1.0/2.0/3.0 up to 5Gb/s  |
| <b>Connector</b>        | - 4 x Serial ATAIII 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10 and JBOD), NCQ, AHCI and "Hot Plug" functions<br>- 2 x SATA3 6.0 Gb/s connectors<br>- 1 x ATA133 IDE connector (supports 2 x IDE devices)<br>- 1 x Floppy connector<br>- 1 x IR header<br>- 1 x COM port header<br>- 1 x HDMI_SPDIF header<br>- 1 x Power LED header<br>- CPU/Chassis/Power FAN connector<br>- 24 pin ATX power connector<br>- 8 pin 12V power connector<br>- CD in header<br>- Front panel audio connector<br>- 3 x USB 2.0 headers (support 6 USB 2.0 ports) |
| <b>BIOS Feature</b>     | - 8Mb AMI Legal BIOS<br>- Supports "Plug and Play"<br>- ACPI 1.1 Compliance Wake Up Events<br>- Supports jumperfree<br>- SMBIOS 2.3.1 Support<br>- CPU VID Voltage Multi-adjustment   |
| <b>Support CD</b>       | - Drivers, Utilities, AntiVirus Software (Trial Version), AMD OverDrive™ Utility, ASRock Software Suite (CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial)   |
| <b>Unique Feature</b>   | - ASRock OC Tuner<br>- Intelligent Energy Saver<br>- Instant Boot<br>- ASRock Instant Flash<br>- ASRock OC DNA<br>- Hybrid Booster:<br>- CPU Frequency Stepless Control<br>- ASRock U-COP<br>- Boot Failure Guard (B.F.G.)  |
| <b>Hardware Monitor</b> | - CPU Temperature Sensing<br>- Chassis Temperature Sensing<br>- CPU/Chassis/Power Fan Tachometer<br>- CPU Quiet Fan<br>- Voltage Monitoring: +12V, +5V, +3.3V, Vcore  |
| <b>OS</b>               | - Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit compliant  |
| <b>Certifications</b>   | - FCC, CE, WHQL<br>- ErP/EuP Ready (ErP/EuP ready power supply is required)   |
| <b>Accessories</b>      | - Quick Installation Guide, Support CD, I/O Shield<br>- Floppy/ATA 133 Cables<br>- 2 x SATA Data Cables (Optional)<br>- 1 x SATA 1 to 1 Power Cable (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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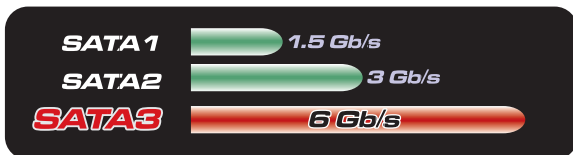
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## USB3.0



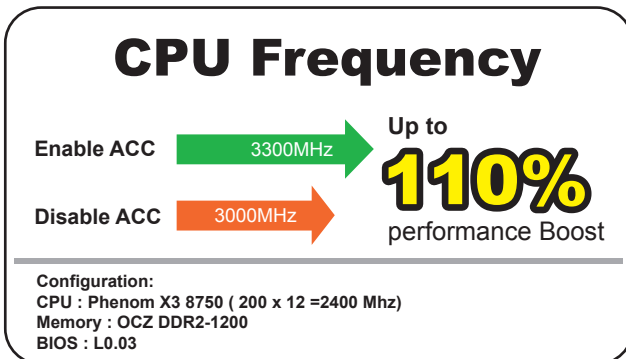
USB3.0, the world's best-known computer peripheral interface once again receives a major revamp to stay current with today's most demands for connectivity bandwidth. Delivering data transfer rates up to ten times faster than USB 2.0 with the optimized power efficiency, USB 3.0 promises a major leap forward in transfer speeds and capability.

## SATA3



SATA3, the world's fastest interface, enables to maximum your hard disk drive performance. With the new SATA Revision 3.0 technology, ASRock ensures you the incredible data transfer rate up to 6Gb/s speed over SATA2.

### AMD OverDrive™ with ACC feature



### Enable AOD ACC, Upgrade your CPU cores and L3 cache now!

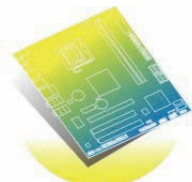
- With AMD Sempron 140 CPU  
● Single core → Dual core
- With AMD Phenom II X2 550 BE CPU  
● X2 cores → X4 cores
- With AMD Phenom II X3 710 / 720 BE CPU  
● X3 cores → X4 cores
- With AMD Phenom II 805 / 810 CPU  
● L3 cache 4MB → 6MB

\*The success rate of this enhancement depends on the individual CPU.

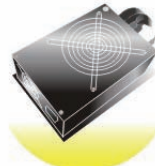
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ErP/EuP Ready Motherboard



ErP/EuP Ready Power Supply



ErP/EuP System

## What is ErP/EuP?

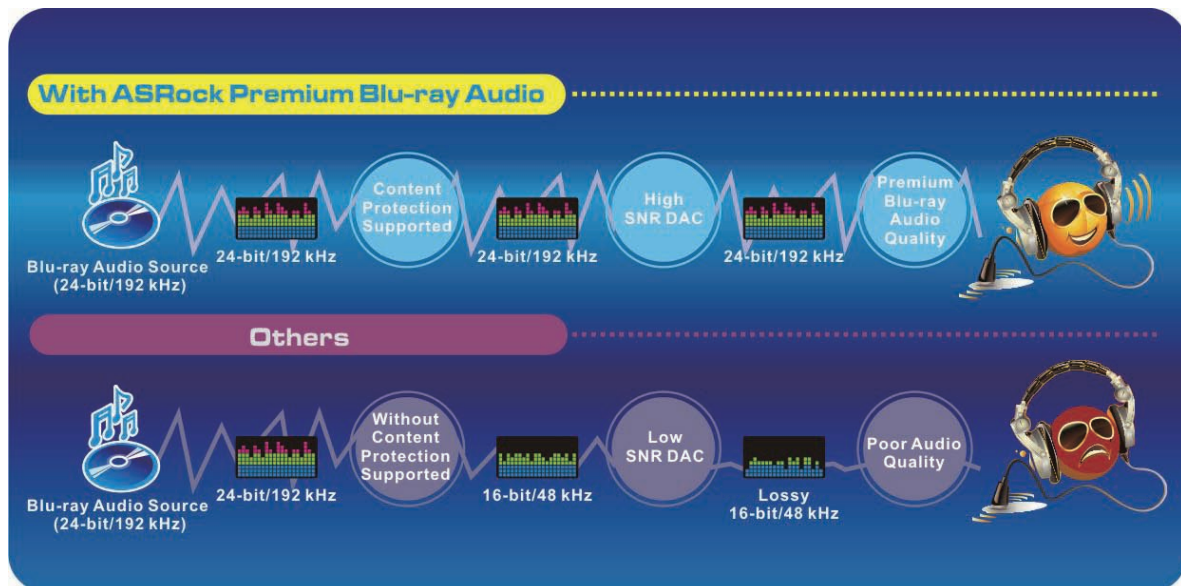
ErP/EuP, stands for Energy Using Product, was a provision regulated by European Union to define the power consumption for the completed system. With the great quantity and the popularly using of the electrical products nowadays and the continuously increasing of the electrical products categories in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

## Premium Blu-ray Audio



Premium Blu-ray Audio, an outstanding technology developed on ASRock motherboard, provides the excellent audio output of 24-bit/192 kHz with its respective Blu-ray DRM compatible driver/software. With Content Protection-Support and High SNR DAC, the Blu-ray entertainments can be played in a high quality of 24-bit/192kHz. In other words, if you are using a device without the Blu-ray Audio support, the audio quality will be downgraded to 16-bit/48kHz like a regular CD quality. To deliver the best possible sound solution for today's most demanding users, ASRock Premium Blu-ray Audio motherboard is the best choice for users who are particularly desired to enjoy the pure HD audio. ASRock users are able to take full advantages of our Blu-ray Audio motherboards. Choose ASRock, choose Pure HD audio!

## Why ASRock?



\* SNR: Signal-to-Noise Ratio.

## Benefits of ASRock Premium Blu-ray Audio motherboards !

|                            | ASRock Premium Blu-ray Audio motherboards           | Other motherboards                                      |
|----------------------------|---|---|
| Content Protection Support | Yes   | No  |
| SNR* DAC                   | High  | Low   |
| Audio Quality              | Premium Blu-ray Audio Quality<br>(24-bit / 192 kHz) | Downgrade to<br>regular CD quality<br>(16-bit / 48 kHz) |

\* SNR: Signal-to-Noise Ratio.

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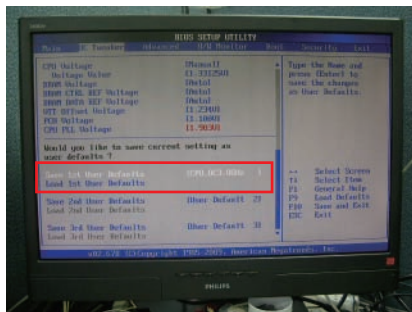
## OC DNA

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")



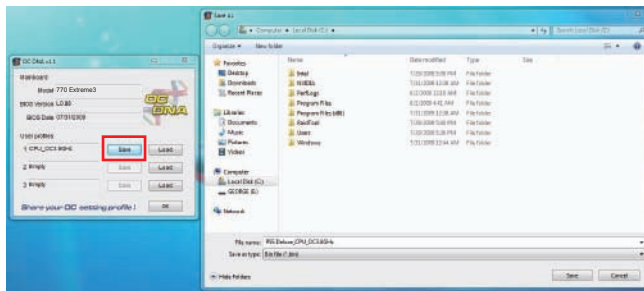
### Step 2

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.



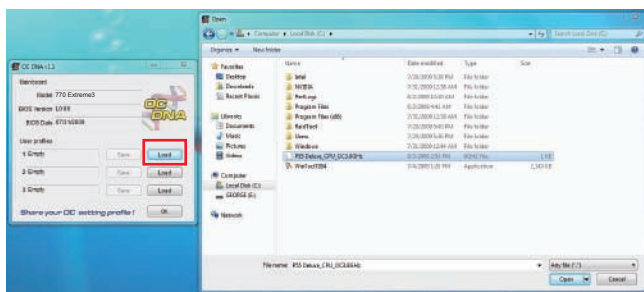
### Step 4

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



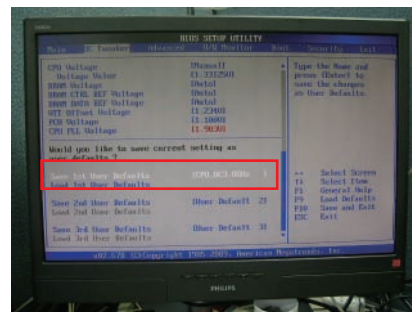
### Step 5

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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## 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>



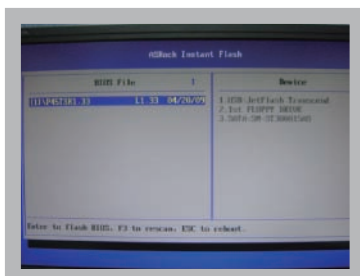
## ASRock Instant Flash

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 Power2Go 6.1 LE OEM
- ★ CyberLink MediaShow 4.1 SE OEM
- ★ CyberLink PowerDVD 8.0 DTS Trial
- ★ CyberLink PowerDirector 8.0 Trial
- ★ CyberLink PowerBackup 2.5 Trial
- ★ Creative Sound Blaster X-Fi MB Trial

**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 backs up 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.