AMD 880G + SB710 Chipsets





















Piatioriii	- Solid Capacitor for CPU power
CPU	- Support for Socket AM3 processors: AMD Phenom™ II X4 / X3 / X2 (except 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processors - Six-Core CPU Ready - Supports AMD OverDrive™ with ACC feature (Advanced Clock Calibration) - Supports AMD's Cool 'n' Quiet Technology - FSB 2600 MHz (5.2 GT/s) - Supports Untied Overclocking Technology - Supports Hyper-Transport 3.0 (HT 3.0) Technology

Chipset Northbridge: AMD 880G Southbridge: AMD SB710 Memory

Dual Channel DDR3 memory technology 4 x DDR3 DIMM slots 4 x DDR3 DIMM slots
Supports DDR3 1800(OC)/1600(OC)/1333/1066/800 non-ECC, un-buffered memory
Max. capacity of system memory: 16GB

- 1 x PCI Express 2.0 x16 slots (blue @ x16 mode) - 1 x PCI Express 2.0 x1 slot - 2 x PCI slots - Supports ATI™ Hybrid CrossFireX™ **Expansion Slot**

Graphics

- Integrated AMD Radeon HD 4250 graphics
- DX10.1 class IGPU, Shader Model 4.1
- Max. shared memory 512MB
- Built-in 128MB DDR3 1333(OC)/1200MHz SidePort Memory
- Three VGA Output options: D-Sub, DVI-D and HDMI
- Supports HDMI Technology with max. resolution up to 1920x1200 (1080P)
- Supports Dual-link DVI with max. resolution up to 2560x1600 @ 75Hz
- Supports D-Sub with max. resolution up to 2048x1536 @ 85Hz
- Supports HDCP function with DVI and HDMI ports
- Supports HDCP function with DVI and HDMI ports
- HDMI ports

Audio LAN

7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)
Premium Blu-ray audio support

PCIE x1 Gigabit LAN 10/100/1000 Mb/s Realtek RTL8111DL

Rear Panel I/O

I/O Panel
-1 x PS/2 Keyboard Port
-1 x VGA/D-Sub Port
-1 x VGA/D-Sub Port
-1 x HDMI Port
-1 x HDMI Port
-1 x Optical SPDIF Out Port
-5 x Ready-to-Use USB 2.0 Ports
-1 x EsATAII Connector
-1 x Ready-to-Use USB 3.0 Port

r x Reauy-to-use USB 3.0 Port 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Sp Microphone

USB 3.0

1 x USB 3.0 port by Fresco FL1000G, supports USB 3.0 up to 5Gb/s

Connector

- 5 x Serial ATAII 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10 and JBOD), NCQ, AHCI and "Hot Plug" functions
- 1 x ATA133 IDE connector (supports 2 x IDE devices)
- 1 x Floppy connector
- 1 x IR header

1 x COM port header

CPU/Chassis/Power FAN connector 24 pin ATX power connector

4 pin 12V power connector

3 x USB 2.0 headers (support 6 USB 2.0 ports)

BIOS Feature

- 8Mb AMI Legal BIOS - Supports "Plug and Play" - ACPI -1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - VCCM, NB, SB Voltage Multi-adjustment

Support CD

Drivers, Utilities, AntiVirus Software (Trial Version), AMD OverDrive™ Utility, AMD Livel Explorer, ASRock Software Sulte (CyberLink DVD Sulte - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial)

Unique Feature

- 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.) Turbo 40 / Turbo 50 Technology

Hardware Monitor

CPU Temperature Sensing

CPU lemperature Sensing
CPU/Chassis/Power Fan Tachometer
CPU Quiet Fan
CPU/Chassis/Power Fan Tachometer
CPU/Chassis Fan Multi-Speed Control
Voltage Monitoring: +12V, +5V, +3.3V, Vcore

os Microsoft® Windows® 7 / 7 64-bit / Vista TM / Vista TM 64-bit / XP / XP Media Center / XP 64-bit compliant

Certifications

FCC, CE, WHQL ErP/EuP Ready (ErP/EuP ready power supply is required)

Quick Installation Guide, Support CD, I/O Shield **Accessories**















Product Brief < < <

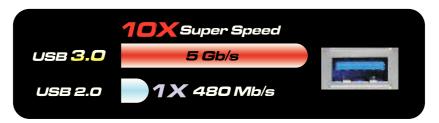
- Phenom II X6 6-Core CPU Ready
- Supports AMD OverDrive™ with ACC feature (Advanced Clock Calibration)
- Turbo 50 Technology
- Integrated AMD Radeon HD 4250 graphics, DX10.1 Class iGPU, Pixel Shader 4.0, Max. shared memory 512MB
- Multi VGA Output options: D-Sub, DVI-D and **HDMI**
- 1 x USB 3.0 port
- Supports ASRock OC Tuner, IES, Instant Boot, Instant Flash, 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

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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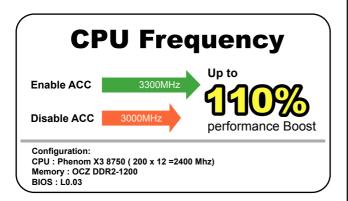




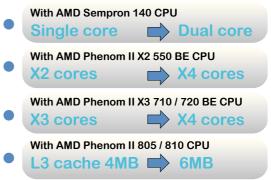


USB3.0, the world's best-known computer peripheral interface once again receives a major revamp to stay current with today's most demands for connectivity bandwidth. Delivering data transfer rates up to ten times faster than USB 2.0 with the optimized power efficiency, USB 3.0 promises a major leap forward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

AMD OverDrive™ with ACC feature



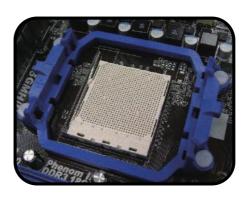
Enable AOD ACC, Upgrade your CPU cores and L3 cache now!



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

Phenom II X6 6-Core CPU Ready





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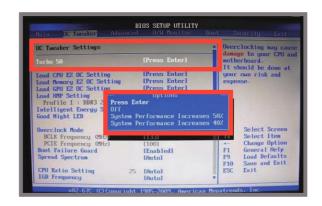
System Performance boosts

up to 50% increase

Simply click the Turbo 50 button in BIOS, the system performance will boost up to 50% increase by automatically overclocking CPU, Memory, GPU frequency and all related voltage settings!

Below table shows that enable Turbo 50 on 785G Extreme3, the performance will boost up to 50% increase!

Model	880GMH/USB3		
Chipset	AMD 880G		
BIOS	L0.04		
CPU	Phenom II x2 550		
RAM	Kingston DDR3-1600 1G*2		
VGA	ATI Radeon HD 4250		
HDD	WD WD5000AAKS 500G		



Turbo 50 Performance Test Result

Phenom IIx2 550	CPU Frequency	GPU Frequency	3D Mark Vantage (Entry)
Turbo 50 Off	3.1GHz	560 MHz	2620
Turbo 50 On	3.56GHz	980 MHz	3945
Percentage Increase	14.84%	75.00%	50.57%

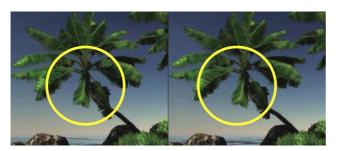
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ATI Radeon® HD4250 DirectX 10.1 Onboard Graphics

Key features of DirectX 10.1 include an updated shader model, improved anti-aliasing support, more flexible data access, and tighter specifications for better applicationcompatibility.

DirectX 10.1 Anti-Aliasing



DirectX 10 –Standard MSAA:Foliage edges do not get anti-aliased –causes shimmering and crawling when they move

DirectX 10.1 –Alpha Test MSAA:Foliage edges are smoothed and anti-aliased –offers significant image quality improvement

Features	DirectX® 10	DirectX® 10.1
Shader Model	4	4.1
Separate per-MRT	No	Yes
blend modes		
Pixel Coverage		
Masks	No	Yes
Sample Pattern	NI-	V
Selection	No	Yes
Cube Map Arrays	No	Yes
Gather4	No	Yes
VS Inputs	16	32
Blending	INT8, FP16/32	INT8/16, FP16/32
Filtering	FP16	FP32

DDR3 1333 (OC) 128MB Side port memory

Boost performance up to 16.2% which is rarely seen on other 880G boards

DDR3 1333 (OC) 128MB side port memroy



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What is ErP/EuP?

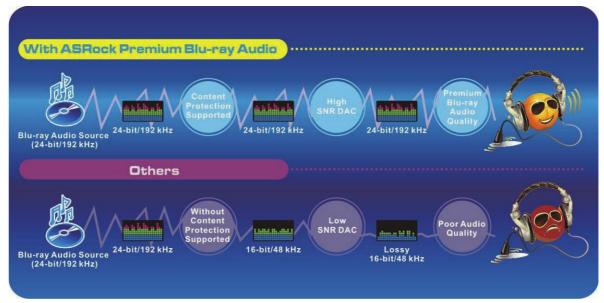
ErP/EuP, stands for Energy Using Product, was a provision regulated by European Union to define the power consumption for the completed system. With the great quantity and the popularly using of the electrical products nowadays and the continuously increasing of the electrical products categories in 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.



AMD 880G + SB710 Chipsets





OC DNA

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

OC DNA Instruction

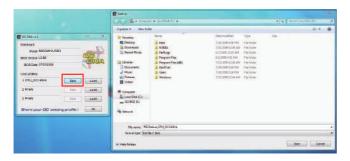
Step 1

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")



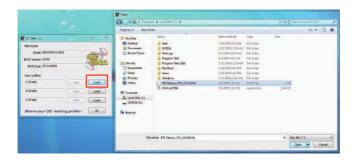
Step 3

Press "Save" button to save the "CPU_OC3.8GHz" OC settings as a profile.



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.



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

Step 2

Execute ASRock OC DNA under OS, you will find "CPU_OC3.8GHz" as User Profile 1.



Step 4

Send the "CPU_OC3.8GHz" profile to other friends.



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.



AMD 880G + SB710 Chipsets





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 userfriendly 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.





Click and start Flashing!



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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.