880GMH-LE/USB3

AMD 880G + SB710 Chipsets

ASRock®
www.asrock.com

Detail Specification <<<
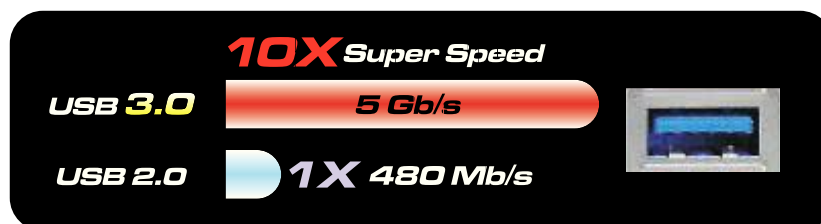
Platform	- Micro ATX Form Factor: 9.6-in x 8.2-in, 24.4 cm x 20.8 cm - All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Support for Socket AM3 processors: AMD Phenom™ II X6 / X4 / X3 / X2 (except 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processors - Six-Core CPU Ready - Supports ASRock UCC - Unlock CPU Core - 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 - 2 x DDR3 DIMM slots - Supports DDR3 1800(OC)/1600(OC)/1333/1066/800 non-ECC, un-buffered memory - Max. capacity of system memory: 8GB
Expansion Slot	- 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™
Graphics	- Integrated AMD Radeon HD 4250 graphics - DX10.1 class iGPU, Shader Model 4.1 - Max. shared memory 512MB - Multi 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 Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI and HDMI ports
Audio	- 5.1 CH HD Audio (VIA® VT1705 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Supports Wake-On-LAN - Supports LAN Cable Detection
Rear Panel I/O	I/O Panel - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x VGA/D-Sub Port - 1 x VGA/DVI-D Port - 1 x HDMI Port - 5 x Ready-to-Use USB 2.0 Ports - 1 x Ready-to-Use USB 3.0 Port - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Line in / Front Speaker / Microphone
USB 3.0	- 1 x USB 3.0 port by Fresco FL1000G, supports USB 3.0 up to 5Gb/s
Connector	- 6 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 Print port header - 1 x COM 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)
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 Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), AMD OverDrive™ Utility, AMD Live! Explorer, ASRock Software Suite (CyberLink DVD Suite - 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.)

Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit compliant
Certifications	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables (Optional)

Product Brief <<<

- **Phenom II X6 6-Core CPU Ready**
- **Supports ASRock Turbo UCC**
- **Supports ASRock UCC - Unlock CPU Core**
- **Supports ASRock AIWI**
- **ASRock DuraCap (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors**
- **Integrated AMD Radeon HD 4250 graphics, DX10.1 Class iGPU, Shader Model 4.1**
- **Multi-VGA Output options: D-Sub, DVI-D and HDMI**
- **1 x USB 3.0 port**
- **Supports ASRock Instant Boot, Instant Flash, OC Tuner, IES, OC DNA**
- **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.

USB3.0

10X Super Speed

USB **3.0** — 5 Gb/s

USB 2.0 — **1X** 480 Mb/s

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.
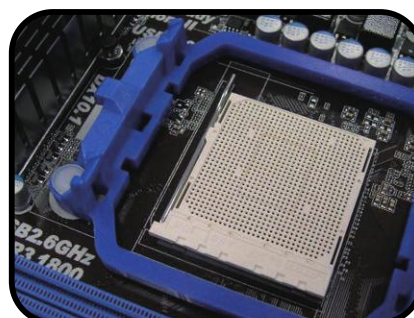

ASRock Turbo UCC
Your All-in-one Solution

Turbo UCC — Overclocking · Unlock CPU core · Power Saving · ON

✔ **Overclocking**

✔ **Unlock CPU Core**

✔ **Power Saving**

H/W Configuration	880GMH-LE/USB3
Chipset	AMD 880G + SB710
CPU	Phenom II X2 555
RAM	G.SKILL 1333 2Gx2
VGA	onboard VGA
HDD	WD 500G

CINEBENCH R10 CPU Benchmark(x CPU)

Turbo UCC OFF	5694
Turbo UCC ON	11159

96% Increase

Sandra 09-Multi-Media Int

Turbo UCC OFF	62
Turbo UCC ON	135.54

119% Increase

Phenom II X6 6-Core CPU Ready

6 CORE Phenom II X6 CPU READY

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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.
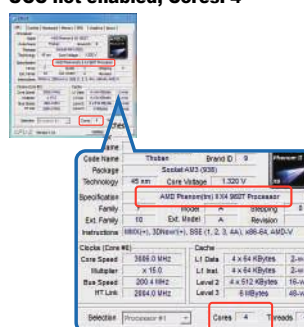
DirectX 10.1 Anti-Aliasing

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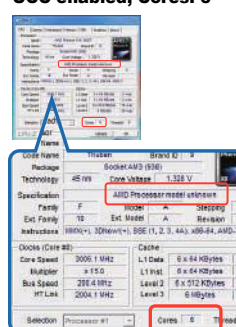
Features	DirectX® 10	DirectX® 10.1
Shader Model	4	4.1
Separate per-MRT blend modes	No	Yes
Pixel Coverage Masks	No	Yes
Sample Pattern Selection	No	Yes
Cube Map Arrays	No	Yes
Gather4	No	Yes
VS Inputs	16	32
Blending	INT8, FP16/32	INT8/16, FP16/32
Filtering	FP16	FP32

ASRock UCC
Key to Unlock CPU Core

Before -
UCC not enabled, Cores: 4

After -
UCC enabled, Cores: 6

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

* The technological implement of Unlock CPU Core may vary by different models.

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ASRock AIWI Rock You Everywhere

Playing Games By Holding Your iPhone or iPod touch

ASRock AIWI software introduces a new way of PC gaming operation. ASRock AIWI is the world's first software to turn your iPhone/iPod touch as a Wii joystick to control your PC games. Just to install the ASRock AIWI software on your ASRock motherboard, connect your PC and apple devices via Bluetooth or WiFi networks, then you can start experiencing the exciting motion controlled games.

System Requirement:

iPhone or iPod touch

ASRock Motherboard with ASRock AIWI PC Software

ASRock AIWI Quick Start Guide

Step 1.
Download and install the ASRock AIWI PC software on ASRock PC:

ASRock AIWI Utility

Step 2.
Free download AIWI-Lite from App Store and install to your iPhone / iPod Touch:

AIWI-Lite for iPhone

Step 3.
Connect your iPhone / iPod touch with ASRock PC via WiFi or bluetooth.

WiFi
Bluetooth®

Step 4.
Execute ASRock AIWI software on the PC and log in to register to become a new AIWI member, then you can receive continues new games update.

880GMH-LE/USB3

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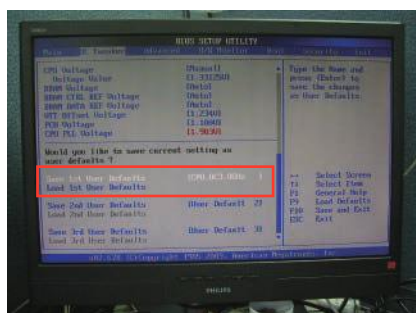
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OC DNA

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

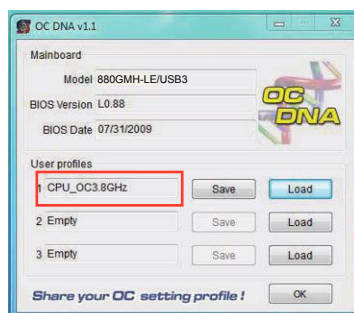## OC DNA Instruction

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")
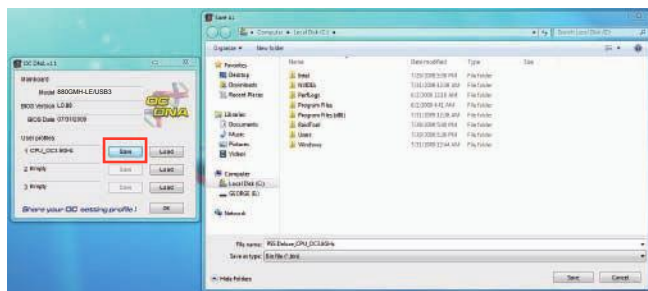

Step 2

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

Step 3

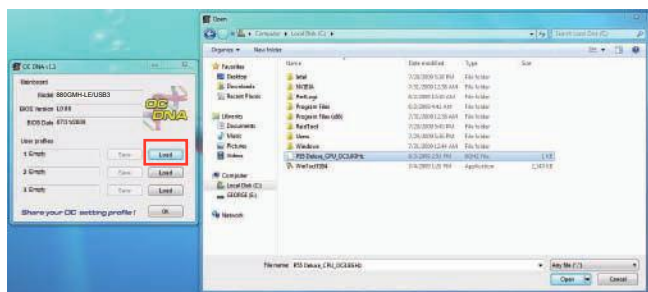Press "Save" button to save the "CPU_OC3.8GHz" OC settings as a profile.

Step 4

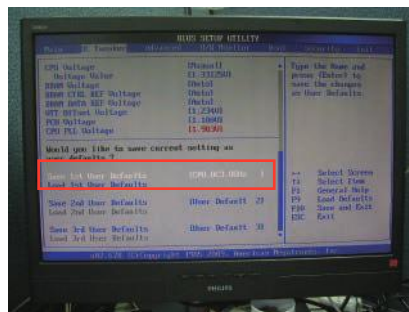Send the "CPU_OC3.8GHz" profile to other friends.

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.
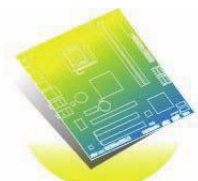

Now, you have successfully share your OC setting profile with your friends.

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

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Ready
ErP
less than 1 Watt in off mode

+ =

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.

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=BucIjXZVxXo

4 Secs

ASRock Instant Boot is 10 times faster than traditional mode!

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.

Instant Flash BIOS
Instant Flash BIOS Utility

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!

FREE Bundle
ASRock Software Suite
★ 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

X-Fi XTREME FIDELITY

EAX ADVANCED HD 4.0

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.