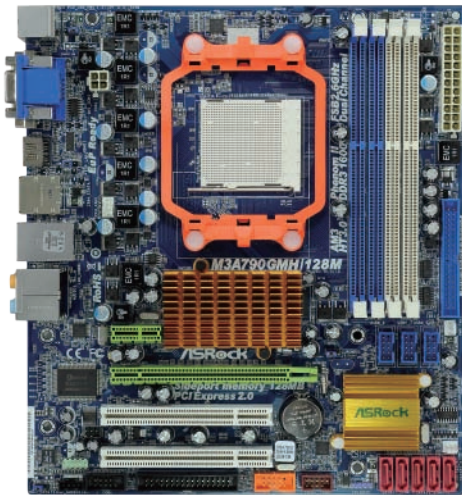


M3A790GMH/128M

AMD 790GX + SB750 Chipsets

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Product Brief <<<

- AM3 Socket
- Supports AMD OverDrive™ with ACC feature (Advanced Clock Calibration)
- Dual Channel DDR3 1600 (OC)
- Integrated AMD Radeon HD 3300 graphics, DX10 class iGPU, Pixel Shader 4.0, Max. shared memory 512MB
- Built-in 128MB DDR3 1333(OC)/1200MHz SidePort Memory
- Supports ATI™ Hybrid CrossFireX™
- Three VGA Output options: D-Sub, DVI-D and HDMI
- EuP Ready
- Supports ASRock Instant Boot, Instant Flash, Smart BIOS, ASRock OC Tuner, Intelligent Energy Saver

Detail Specification <<<

Platform	- Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm - Solid Capacitor for CPU power
CPU	- Support for Socket AM3 processors: AMD Phenom™ II X4 / X3 / X2 (except 920 / 940) and Athlon II X4 / X3 / X2 processors - Supports AMD OverDrive™ with ACC feature (Advanced Clock Calibration) - AMD LIVE!™ Ready - 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 790GX - Southbridge: AMD SB750
Memory	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 1600(OC)/1333/1066/800 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB
Expansion Slot	- 1 x PCI Express 2.0 x16 slot (green @ x16 mode) - 1 x PCI Express 2.0 x1 slot - 2 x PCI slots - Supports ATI™ Hybrid CrossFireX™
Graphics	- Integrated AMD Radeon HD 3300 graphics - DX10 class iGPU, Pixel Shader 4.0 - Max. shared memory 512MB - Built-in 128MB DDR3 1333(OC)/1200MHz SidePort Memory - Three VGA Output options: D-Sub, DVI-D and HDMI - Supports HDCP function - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback
Audio	- 7.1 CH Windows® Vista™ Premium Level HD Audio (Realtek ALC888 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Supports Wake-On-LAN
Rear Panel I/O	I/O Panel - 1 x PS/2 Keyboard Port - 1 x VGA/D-Sub Port - 1 x VGA/DVI-D Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 1 x IEEE 1394 Port - 1 x eSATAII 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: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
Connector	- 5 x Serial ATAII 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 5, 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 - 1 x IEEE 1394 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 BIOS - 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 - Supports Smart BIOS
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), AMD OverDrive™ Utility, AMD Live! Explorer
Unique Feature	- ASRock OC Tuner - Intelligent Energy Saver - Instant Boot - ASRock Instant Flash - 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® XP / XP Media Center / XP 64-bit / Vista™ / Vista™ 64-bit compliant
Certifications	- FCC, CE, WHQL - EuP Ready (EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shield - ATA 133 cable - 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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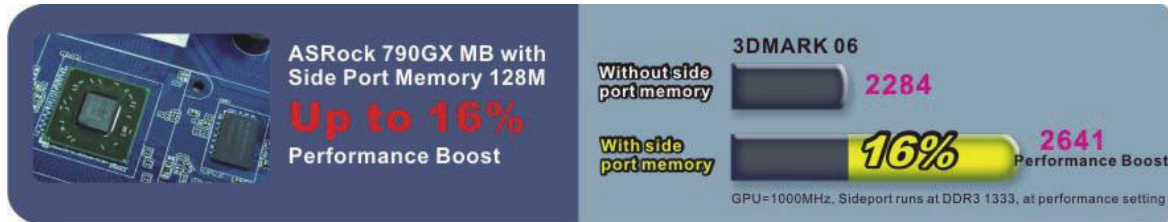
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Side port memory 128M:

Boost performance up to 16% which is rarely seen on other 790GX boards

side port memroy 128M



AMD OverDrive™ with ACC feature (Advanced Clock Calibration)

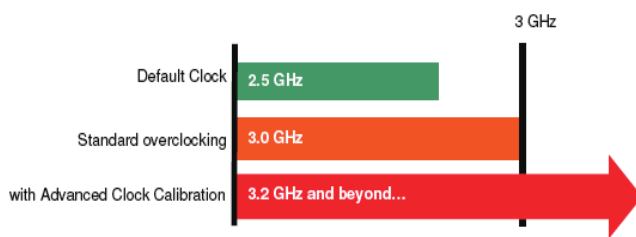
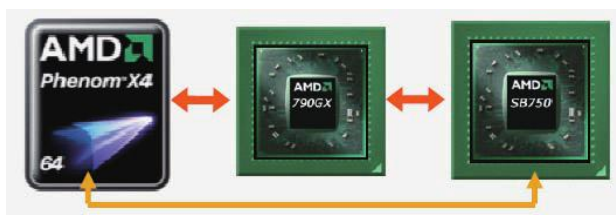
AMD OverDrive™ application interface



AMD OverDrive™ is a powerful tool with numerous features and options which includes clock frequency adjustments, clock multiplier settings, voltage tuning and memory timings.

Advanced Clock Calibration is a performance accelerating feature. This feature is available with the AMD 790GX platform and can enable a greater performance tuning margin for the AMD Phenom™ Black Edition CPUs.

ACC Link Using the AMD SB750



*Overclocking results can vary by CPU

The diagram shows the configuration that enables Advanced Clock Calibration on the AMD 790GX platform. The below chart visually describes the benefit of this feature.

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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.

How to setup an EuP system?

To meet EuP standard, the EuP ready motherboard and the EuP ready power supply are required. As a motherboard vendor with eco-awareness, ASRock is the pioneer to develop "EuP Ready" motherboards based on the great efforts of our exceptional hardware design.

According to Intel, the EuP ready power supply must meet the standard of 5v standby power efficiency is higher than 50% under 100 mA current consumption. For EuP ready power supply selection, please check with the power supply manufacturer for more details.

ASRock, Worldwide First EuP Ready Motherboard Manufacturer!

ASRock hereby proudly announced that we are the Worldwide First motherboard manufacturer to release "EuP Ready" motherboard to the market! With ASRock "EuP Ready" motherboard, you are confident to setup a system to pass the EuP standard.



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>



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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.



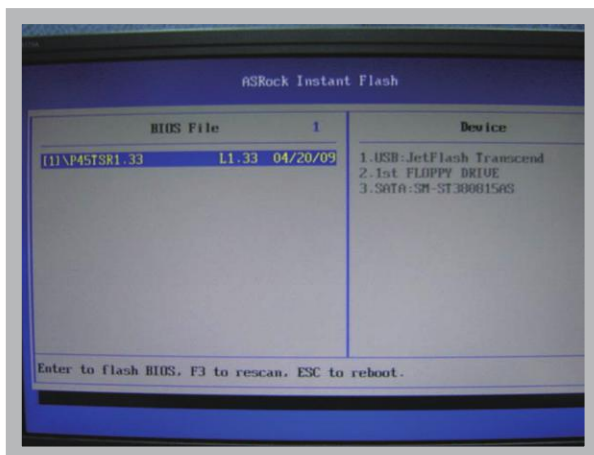
How to execute ASRock Instant Flash?

ASRock Instant Flash is extremely user-friendly. You can access Instant Flash utility directly by pressing F6 when you saw this page.



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!