

AOD790GX/128M

AMD 790GX + SB750 Chipsets

ASRock
www.asrock.com



140W
Phenom CPU

AMD Radeon HD 3300
DX10, PS 4.0

CrossFire

128M
Side Port Memory

AMD
OverDrive™

Intelligent
Energy Saver

Smart BIOS

OC Tuner

Product Brief <<<

- 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**
- **Supports CPU up to 140W**
- **All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)**
- **ASRock DuraCap (2.5 x longer life time)**
- **Extra ESD Protection**
- Supports **AMD OverDrive™** with ACC feature (Advanced Clock Calibration)
- **FSB 2600 MHz (5.2 GT/s)**
- Supports **Hyper-Transport 3.0 (HT 3.0) Technology**
- Supports Dual Channel **DDR2 1066** with AM2+ CPU , and **DDR2 800/667/533** with AM2 CPU, with 4 DIMM slots, maximum capacity up to 8GB
- Integrated AMD Radeon HD 3300 graphics, **DX10 class iGPU, Pixel Shader 4.0**, Max. shared memory **512MB**
- Supports **ATI™ CrossFire™ and Hybrid CrossFireX™**
- Integrated 128MB side port memory for iGPU
- 2 x **PCI Express 2.0** x16 slots (green @ x16 mode, blue @ x8 mode)
- **6 x SATAII 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 **IEEE1394** port
- **PCIE Gigabit LAN 10/100/1000 Mb/s**
- **Three VGA Output options: D-Sub, DVI-D and HDMI with DVI-to-HDMI converter**
- Supports **HDCP function**
- Supports **Full HD 1080p Blu-ray (BD) / HD-DVD playback**
- 1 x **USB/WiFi** header
- Supports **Smart BIOS, ASRock OC Tuner, Intelligent Energy Saver**
- Free Bundle: 1 x ASRock XFire Switch Card, 1 x DVI-to-HDMI converter
- 7.1 CH Windows® Vista™ Premium Level HD Audio, DAC with **110dB** dynamic range (ALC890 Audio Codec)
- **Windows® Vista™ Premium 2008 Logo Ready**

Detail Specification <<<

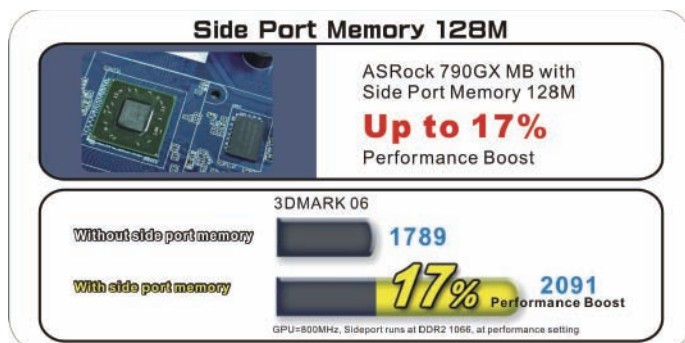
Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Support for Socket AM2+ / AM2 processors: AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core / Athlon X2 Dual-Core / Athlon 64 / Sempron processor - Supports CPU up to 140W - 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 DDR2 memory technology - 4 x DDR2 DIMM slots - Supports DDR2 1066/800/667/533 non-ECC, un-buffered memory - Max. capacity of system memory: 8GB
Expansion Slot	- 2 x PCI Express 2.0 x16 slots (green @ x16 mode, blue @ x8 mode) - 1 x PCI Express 2.0 x1 slot - 3 x PCI slots - Supports ATI™ CrossFire™ and Hybrid CrossFireX™
Graphics	- Integrated AMD Radeon HD 3300 graphics - DX10 class iGPU, Pixel Shader 4.0 - Max. shared memory 512MB - Integrated 128MB side port memory for iGPU - Three VGA Output options: D-Sub, DVI-D and HDMI with DVI-to-HDMI converter - Supports HDCP function - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback
Audio	- 7.1 CH Windows® Vista™ Premium Level HD Audio with Content Protection - DAC with 110dB dynamic range (ALC890 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111C-VCO-GR - Supports Wake-On-LAN
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 - 6 x Ready-to-Use USB 2.0 Ports - 1 x eSATAII Port - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - 1 x IEEE 1394 Port - HD Audio Jack: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
Connector	- 6 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 eSATAII 3.0 Gb/s connector (shared with 1 SATAII port) - 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 HDMI SPDIF header - 1 x IEEE T394 header - CPU/Chassis FAN connector - 24 pin ATX power connector - 8 pin 12V power connector - SLI/XFire power connector - CD in header - Front panel audio connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports) - 1 x USB/WiFi header
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 - CPU, DRAM, NB Voltage Multi-adjustment - Supports Smart BIOS
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), AMD OverDrive™ Utility
Unique Feature	- ASRock OC Tuner - Intelligent Energy Saver - 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%
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU Fan Tachometer - Chassis Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® XP / XP Media Center / XP 64-bit / Vista™ / Vista™ 64-bit compliant
Certifications	- FCC, CE, WHQL
Accessories	- 1 x ASRock SLI/XFire Switch Card - Quick Installation Guide, Support CD, I/O Shield - Floppy/ATA 133 cables - 4 x SATA data cables (optional) - 1 x SATA 1 to 1 power cable (optional) - 1 x DVI-to-HDMI converter

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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Side port memory 128M:

Boost performance up to 17%

which is rarely seen on other

790GX boards



Extra ESD Protection:

It gives extra antistatic protection of I/O panel and other components on your motherboard.

DuraCap:

It can last 2.5 times longer than other regular solid capacitors.

AMD OverDrive™ with ACC feature (Advanced Clock Calibration)

AMD OverDrive™ application interface

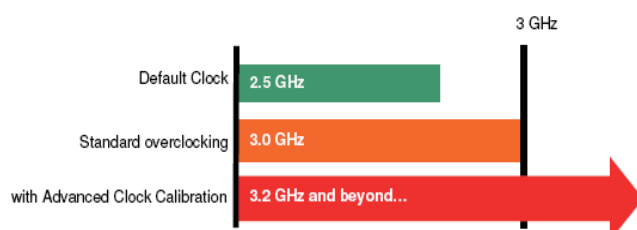
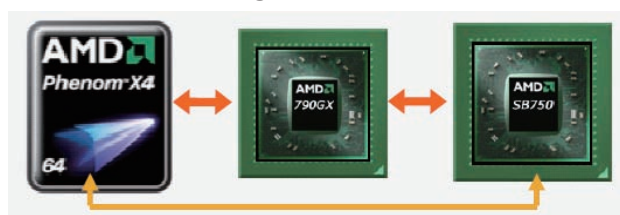


AMD OverDrive™ is a powerful tool with

numerous features and options which

includes clock frequency adjustments, clock multiplier settings, voltage tuning and memory timings.

ACC Link Using the AMD SB750



*Overclocking results can vary by CPU

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.

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.