Mainboard Diagram

HA07-Ultra

1. AMD™ 790GX Chipset and AMD™ SB750 Chipset
2. Supports AMD AM3/AM2+ Phenom™/ AM2 Athlon64 processors
3. High-polymer solid electrolysis aluminum capacitors
4. Integrated ATI Radeon HD 3300 GPU(For Directx 10)
5. Support AMD OverDrive(AOD) Technology
6. Supports ATI Hybrid CrossFire Technology
7. Supports ATI CrossFireX Technology
8. Supports Dual Channel DDR2 1066/800
9. Integrated Serial ATA2 3Gb/s with RAID function
10. Integrated Gigabit LAN and e-SATA
11. Integrated ALC888 HD Audio CODEC with 8.0 CH
12. Supports Blu-ray/Full HD DVD playback
13. CPU Vcore 7-Shift / DVI Port/ Debug Port/HDMI port/VGA port
14. Ready for Windows® Vista™
15. **Integrated DDR3 128MB side port memory**
16. ATX Form Factor

Features and Benefits

AMD Phenom™ Quad-Core Processors with True Quad-Core Technology

Realize new possibilities for connecting with friends, family, and digital entertainment with the phenomenal performance of the AMD Phenom™ 9000 series quad-core processor. Built from the ground up for true quad-core performance, AMD Phenom™ processors speed through advanced multitasking, critical business productivity, advanced visual design and modeling, serious gaming, and visually stunning digital media and entertainment

AMD™ 790GX Chipset: Backbone of the Performance Platform

AMD™ 790GX chipset based PCs feature the latest PCI-Express™ 2.0 bus technology and deliver high performance, low latency architecture offer one of the industry's advanced core-logic solutions with qualified performance and the latest technologies-PCI Express 2.0, secure high-speed networking, and high-performance storage—and ensures that your PC stays ready for the newest games, future applications, and next-generation PC specifications

Hyper Transport Technology 3.0

The highly scalable Hyper Transport 3.0 is capable to provide incredible bandwidth of the system bus up to 20.8GB/s which would dramatically elevate the efficiency of computing performance.

ATI Hybrid Graphics Technology

To provide better gaming performance than a single graphics card, the innovative design of ATIª Hybrid Graphics Technology is capable to bring additional performance increase up to 1.75X by enabling the power of both integrated graphics core and the add-on graphics card simultaneously

PCI Express 2.0 Buses

The PCI Express 2.0 x16 graphics delivers up to 8 GB/s per direction, 2 times more bandwidth than PCI Express x16 and up to 16 GB/s concurrent bandwidth. PCI Express x1 I/O offers 1GB/s concurrently, over 7 times more bandwidth than AGP8X, tackling the most demanding multimedia tasks nowadays

GPU Clock Adjustable
Onboard VGA can over-clocking

Serial ATA2 3Gb/s&RAID ,e-SATA

This platform supports reliable storage solution for enhanced data protection and data accessing performance. Serial ATA 3Gb/s is firstly introduced in this platform to provide blazingly 3Gb/s bus bandwidth thus higher disk performance. The SATA RAID allows multi-disk designs to be set up as RAID 0, 1,10 based on users' priority of protection/performance, and which even makes more accessible by introducing the innovative windows-based facility

E-SATA is a new standard for external storage devices. With an external data transfer rate of up to 3 Gb/s no other external data transfer solution can compete with speed and ease of use

PCI-Express Gigabit LAN

Delivers transfer speed ten times faster than conventional 10/ 100 Ethernet connections, supporting a high transfer rate up to Gigabit/s.

Gigabit LAN is the networking standards for the future and is ideal for handing large amount of data such as video, audio, and voice

DVI Interface

DVI (Digital Visual Interface) provides high visual quality of digital display devices such as LCD monitors

OC-CON high-polymer solid electrolysis aluminum capacitors embedded
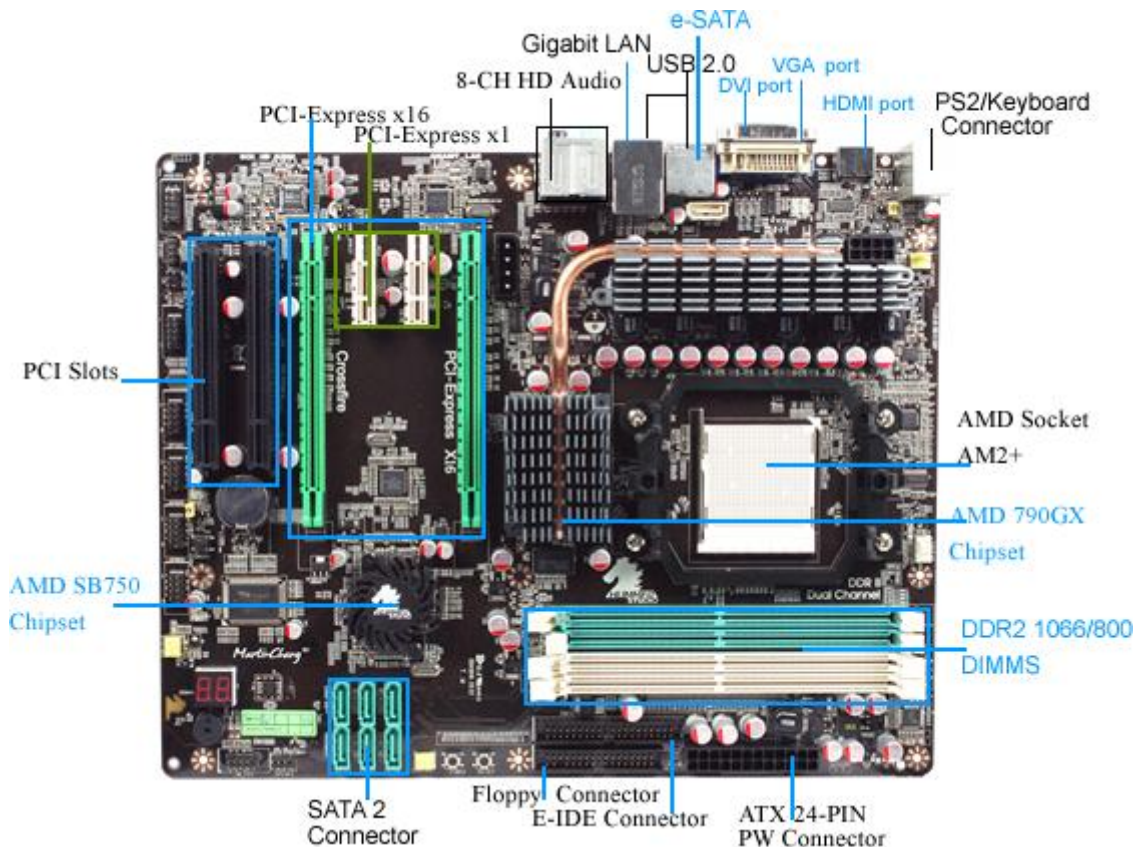
The working temperature is from 55 degrees Centigrade below zero to 125 degrees Centigrade, OC_CON capacitors possess superior physical characteristics that can be while reducing the working temperature between 20 degrees Centigrade each time, intact extension 10 times of effective product operation lives, at not rising degrees Centigrade of working temperatures each time a relative one, life of product decline 10% only too.

Debug Port / The Professional Hardware Diagnosis System

Being bugged of abnormal system failure through the tossed and turned nights no more, the embedded Hardware Debug Port offers you the real-time visual system healthy for the demanding usage of computing. No more bugging by unknown system failure and no more time wasted in the first moment of 24-hour nonstop ping business computing, the embedded Debug Port will turn you into a well training hardware professional with the seeing system situation.

CPU Vcore 7-Shift / Shift to the scalabilities and flexibilities

The adjustable voltage for CPU Vcore can be upgraded in 31 stages for the precisely hardware dynamic over-clocking of demanding computing performance.

Mainboard Specifications

■ **CPU**	**Supports AMD Socket AM3/AM2+/AM2:** ■ AMD Phenom FX/Phenom processors ■ Athlon 64 X2 / Athlon 64 FX / Athlon 64 / Sempron processors
■ **Chipset**	■ AMD™ 790GX Chipset + AMD™SB750 Chipset
■ **Hyper Transport Bus**	■ HT 3.0
■ **Memory**	■ Dual Channel DDR2 memory technology ■ 4 * 240-pin DDR2 DIMM slots ■ Supports DDR2 1066/800 non-ECC ,un-buffered memory ■ Max.8GB
■ **Expansion Slots**	■ 2 * 32-bit PCI slots ■ 2 * PCI Express 2.0 x16 slots by 8-LANE ■ 2 * PCI Express x1 slots
■ **Storage**	**AMD™SB750 Southbridge Chipset :** ■ 6 * Serial ATA2 3Gb/s connectors ■ Supports HDDs with RAID 0, 1,5,10 functions ■ 1 * Ultra DMA 133 / 100 / 66 IDE connector
■ **Audio**	■ Realtek ALC888 HD Audio CODEC with 8-Channel
■ **Ethernet LAN**	■ Realtek RTL8111CVC PCI Express Gigabit NIC
■ **USB**	■ Embedded 12 * USB 2.0/1.1
■ **Special Features**	■ Advanced Power Design that supports the latest Socket-AM2 + K10 CPU ■ Support　ACPI S3
■ **Rear Panel I / O**	■ 4 * USB 2.0/1.1 ports ■ 1 * PS/2 mouse port ■ 1 * PS/2 keyboard port ■ 1 * VGA port ■ 1 * DVI port ■ 1 * HDMI port ■ 1 * RJ-45 port ■ 1 * Audio I / O port ■ 1 * e-SATA port
■ **Internal I / O**	■ 4 * USB 2.0/1.1 headers for 8 USB 2.0/1.1 ports ■ CPU / Chassis Fan connectors ■ 1 * 8-pin ATX 12V Power connector ■ 1 * 24-pin ATX Power connector ■ 1 * Serial Port of 9-pin block ■ CD / AUX Audio in ■ 1 * Ultra DMA 133 / 100 / 66 IDE connector ■ 1 * Floppy connector / 1 * IR header / 1 * COM header ■ 1 * HDMI_SPDIF header
■ **BIOS**	■ Award 8MB SPI Flash ROM
■ **Form Factor**	■ ATX Form Factor