

HA04



1. AMD™ 790FX Chipset and AMD™ SB600 Chipset
2. **AM3 140W** CPU ready
3. Supports AMD AM2+ Phenom™/ AM2 Athlon64 series processors
4. High-polymer solid electrolysis aluminum capacitors
5. Supports Dual Channel DDR2 1066/800
6. Integrated Serial ATA2 3Gb/s with RAID function
7. Integrated Gigabit LAN
8. Integrated ALC888 HD Audio CODEC with 8.0 CH
9. CPU Vcore 31-Shift/Debug Port
10. Ready for Windows® Vista™
11. 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™ 790FX Chipset: Backbone of the Performance Platform

The AMD 790FX Chipset supports triple and quad-graphics to give your system ultimate performance scaling capability from a single motherboard. To satisfy the enthusiast's need for speed and control, configure your graphics in different modes. Get the inside edge when you pair an AMD 790FX Chipset-based motherboard with the best AMD Phenom™ FX true quad-core processor

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 CrossFire™ Technology

CrossFire is the ultimate multi-GPU performance gaming platform, enabling game-dominating power from CrossFire ready motherboards for AMD and Intel® processors and multiple ATI™ Radeon™ graphics cards. CrossFire: Multiply and Conquer!

AMD New generation of 45nm AMD Socket AM3 processors

The 45nm AM3 processors that support Hyper Transport 3.0 Bus and integrate DDR2 & DDR3 memory controller, To provide advanced visual design and modeling, serious gaming, and visually stunning digital media and entertainment.

Serial ATA II 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 handling large amount of data such as video, audio, and voice

Pro Magic Plus System Recovery Software Embedded

Restore important data back right away, allowing your system to be operated under a safe environment. This amazing software not only provides convenient instant restoration, but also brings data back to the preferred state at any specific time point as you wish. Moreover, it combines several other functions such as anti-virus, backup software、 uninstall software, multi-booting etc. to satisfy your needs of all sorts of system protections. No more worries on new virus or system failure!

DIY Clear Functions

Initiate the DIY-Clear button, set on the IO back panel especially .when enjoying the overclocking ,the power users can clear the CMOS without opening the case .The humanization design is convenient for the users .

OC-CON high-polymer solid electrolysis aluminum capacitors embedded

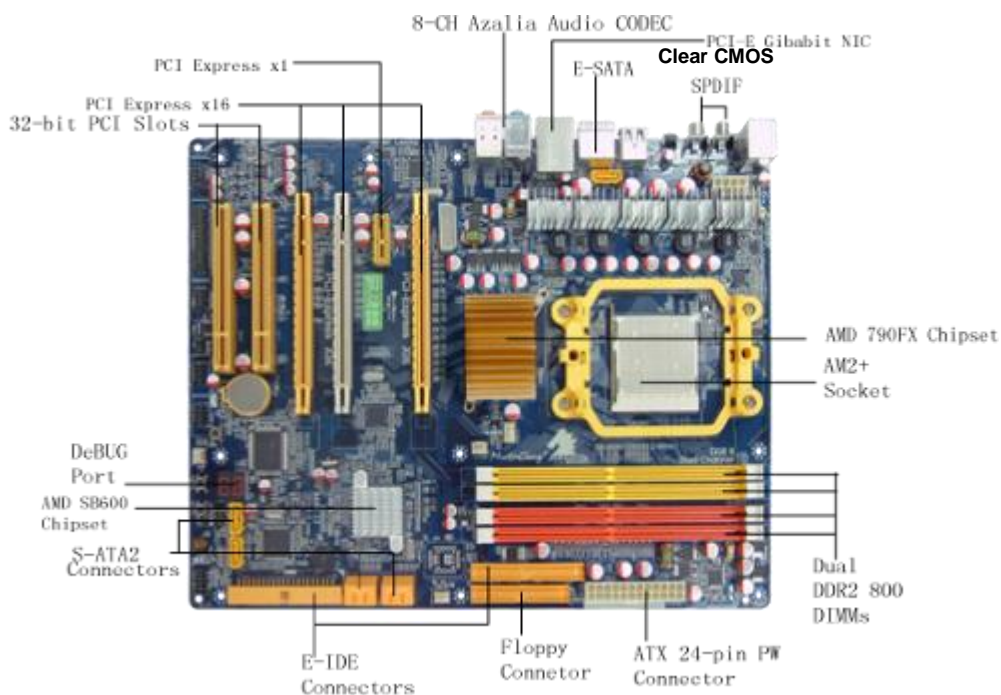
The working temperature is from 55 degrees Centigrade below zero to 125 degrees Centigrade, OC_CON capacitors possess superior physical characteristics that can be while reducing the working temperature between 20 degrees Centigrade each time, intact extension 10 times of effective product operation 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 V-core Shift / Shift to the scalabilities and flexibilities

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



Mainboard Specifications

<ul style="list-style-type: none"> ■ CPU 	<p>Supports AMD Socket AM3/AM2+/AM2:</p> <ul style="list-style-type: none"> ■ AMD Phenom FX/Phenom processors ■ Athlon 64 X2 / Athlon 64 FX / Athlon 64 / Sempron processors
<ul style="list-style-type: none"> ■ Chipset 	<ul style="list-style-type: none"> ■ AMD™ 790FX Chipset + AMD™SB600 Chipset
<ul style="list-style-type: none"> ■ Hyper Transport Bus 	<ul style="list-style-type: none"> ■ HT 3.0
<ul style="list-style-type: none"> ■ Memory 	<ul style="list-style-type: none"> ■ Dual Channel DDR2 memory technology ■ 4 * 240-pin DDR2 DIMM slots ■ Supports DDR2 1066/800 non-ECC ,un-buffered memory ■ Max.8GB
<ul style="list-style-type: none"> ■ Expansion Slots 	<ul style="list-style-type: none"> ■ 2 * 32-bit PCI Slots ■ 1 * PCI Express x16@16-lane and 2 * PCI Express x16@8-lane(For ATI Cross Fire X Technology, x16 + x16 or x8 +x8 +x16; When install the "Switch Card" into PE-3, the PE4 will offer 16-lane) ■ 1 * PCI EXPRESS x1
<ul style="list-style-type: none"> ■ Storage 	<p>AMD™SB600 Southbridge Chipset:</p> <ul style="list-style-type: none"> ■ 4 * Serial ATA2 3Gb/s connectors ■ Supports HDDs with RAID 0, 1,0+1,10 Functions ■ 1 * Ultra DMA 133 / 100 / 66 IDE connector <p>Embedded JMB363 Chipset:</p> <ul style="list-style-type: none"> ■ Supports 2 Serial ATA2 HDDs with RAID 0, 1,0+1,10,JBOD Functions
<ul style="list-style-type: none"> ■ Audio 	<ul style="list-style-type: none"> ■ Realtek ALC888 8-Channel HD Audio CODEC
<ul style="list-style-type: none"> ■ Ethernet LAN 	<ul style="list-style-type: none"> ■ Marvell 88E8056 PCI Express Gigabit NIC
<ul style="list-style-type: none"> ■ USB 	<ul style="list-style-type: none"> ■ Embedded 10 * High Speed USB @ 480 Mbit / s
<ul style="list-style-type: none"> ■ Special Features 	<ul style="list-style-type: none"> ■ Advanced Power Design that supports the latest Socket-AM2 + K10 CPU ■ "IMAGE IT!" System Backup Software and "ProMagicPLUS!" System Recovery System
<ul style="list-style-type: none"> ■ Rear Panel I / O 	<ul style="list-style-type: none"> ■ 6 * USB 2.0/1.1 ports ■ 1 * PS/2 mouse port ■ 1 * PS/2 keyboard port ■ 1 * Coaxial In/Out ■ 1 * RJ-45 port ■ 1 * Audio I / O ■ 1 * e-SATA port
<ul style="list-style-type: none"> ■ Internal I / O 	<ul style="list-style-type: none"> ■ 2 * USB 2.0/1.1 headers for 4 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 ■ 1 * Parallel port of 25-Pin block ■ CD / AUX Audio in ■ 1 * Ultra DMA 133 / 100 / 66 IDE connector ■ 1 * Floppy connector ■ 1 * HDMI_SPDIF header
<ul style="list-style-type: none"> ■ BIOS 	<ul style="list-style-type: none"> ■ Award 8MB SPI Flash ROM
<ul style="list-style-type: none"> ■ Form Factor 	<ul style="list-style-type: none"> ■ ATX Form Factor