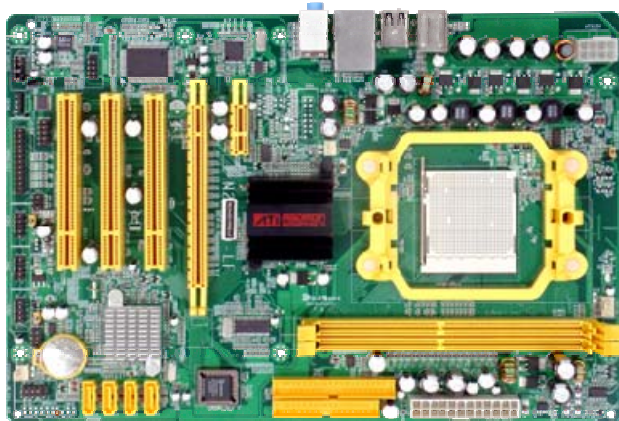# Mainboard Diagram

M2A480VP

- ATi™ CrossFire™ Xpress 1600 (RD480) Northbridge Chipset
- ATi™ SB600 Southbridge Chipset
- Support Socket AM2 64-bit dual core AMD Athlon™64 X2 processor
- Support HTT 1000MHz
- Dual Channel DDR2 800 Memory DIMMs Supported
- Support 4 Serial ATA Devices with RAID 0, 1, 5, 10
- Ready for Windows® Vista™
- 10 / 100 LAN Supported
- AC'97 6 Channel Audio CODEC
- CPU Vcore 7-Shift
- ATX Form Factor

Features and Benefits

Socket AM2 64-bit AMD Athlon™ 64 Processor with HyperTransport™ Technology

AMD64, a revolutionary technology allowing the processor to run 32-bit applications at full speed while enabling a new generation of powerful 64-bit software applications. HyperTransport™ technology can increase overall system performance by removing I/O bottlenecks, increasing system bandwidth, and reducing system latency.

CrossFire™ Xpress 1600: Backbone of the Performance Platform

CrossFire™ Xpress 1600* is ATI's performance class Multi GPU platform solution. In multi-GPU (CrossFire) system configuration with two Radeon® graphics cards, this advanced chipset pumps an exceptional bandwidth of up to 2 GB/s to each GPU, delivering incredible graphics and blistering performance. CrossFire Xpress 1600 provides incredible flexibility and unlimited upgrade potential as it supports all Radeon® PCI – E graphics cards on a system configured for either single GPU or CrossFire operation. Designed with ATI's unique architecture to optimize speed and stability, this solution is perfect for overclocking – without the need of additional cooling systems.

ATi™ SB600 Southbridge Chipset

ATI SB600 Series offers advanced technologies and superior performance to any chipset platform solution for AMD or Intel-based desktop and mobile applications. With superior performance and broad-based connectivity, SB600 is rich in all the latest advanced features such as 10 USB 2.0 ports and audio. Designed for full data access for the fastest Windows Vista experience, it features new disk controller technologies that ensure fast file access while providing encryption for data security. ATI SB600 is designed with advanced power management for low power consumption and energy efficient platforms.

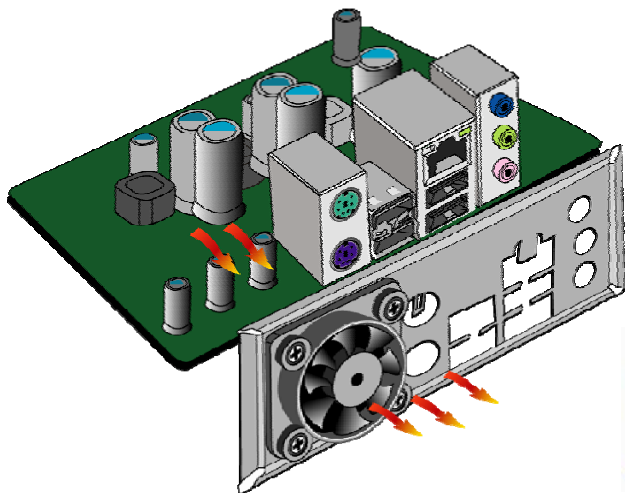## Pro Magic Plus System Recovery Software Embedded

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!

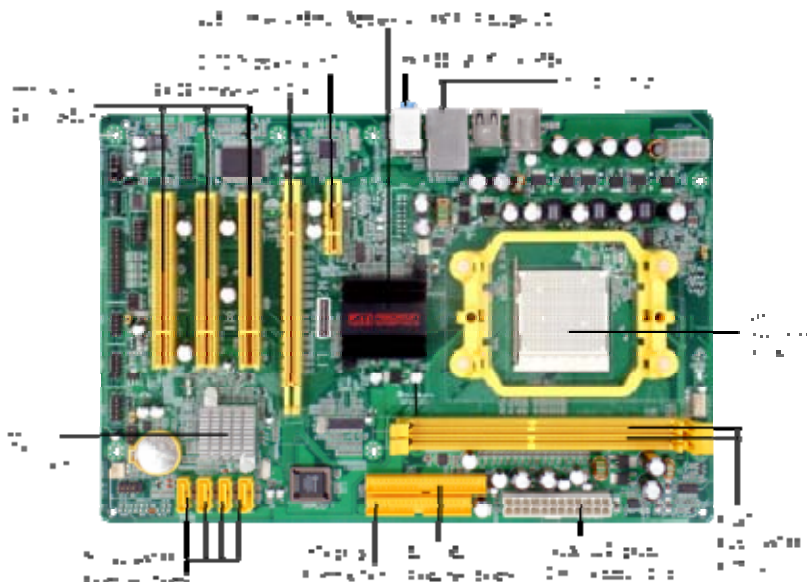## CPU Vcore 7-Shift / Shift_to the scalabilities and flexibilities

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

Advanced Thermal Solution System for PWM(The active cooling fan is Optional)

The unique Thermal solution for PWM can be the exhaust valve of exhausting the heat generated by PWM effectively. With the small but quiet active cooling fan to decrease the temperature of PWM, we can extend the MTBF of the capacitors up to 30% and get more stability of the system working under the higher and higher frequency in the future.

MTBF

Mainboard Specifications

■ CPU	■ Socket AM2 HTT 1000 MHz AMDl® Athlon™64 With HyperTransport Technology ■ Compatible with 64-bit Dual Core AMD® Athlon™64 X2 Processor
■ Chipset	■ ATi™CrossFire™Xpress 1600 Northbridge Chipset + ATi™SB600 Southbridge Chipset
■ Memory	■ 2 * 240-pin DIMM Sockets for unbuffered Dual DDR2 800 SDRAM up to 4 GB
■ Expansion Slots	■ 3 * 32-bit PCI Slots / 1 * PCI EXPRESS x1 / 1 * PCI EXPRESS x16 Slots
■ Storage	■ 2 * Ultra DMA 133 / 100 / 66 IDE Devices Support ■ Embedded ATi™SB600 Southbridge Chipset Supports 4 Serial ATA2 HDDs with RAID 0, 1, 5, 10 Functions.
■ Audio	■ Realtek ALC655 6-Channel AC 97' Audio CODEC
■ Ethernet LAN	■ Realtek RT8101E-GR PCI 10 / 100 LAN PHY
■ USB	■ Embedded 10 * High Speed USB @ 480 Mbit / s
■ Special Features	■ Advanced Power Design that supports the latest Socket-AM2 K8 CPU ■ "IMAGE IT!" System Backup Software and "ProMagicPLUS!" System Recovery System
■ Rear Panel I / O	■ 4 * High Speed USB Connectors @ 480 Mbit / s ■ 1 * PS / 2 Mouse & 1 * PS/2 Keyboard ■ 1 * RJ45 Over USB2.0 Connector ■ 1 * Audio I / O
■ Internal I / O	■ 2 * High Speed USB Connectors @ 480 Mbit / s for 4 USB 2.0 Ports ■ CPU / Chassis Fan Connectors ■ 1 * 12V 8-pin ATX Power Connector and 1 * 24-pin ATX Power Connector ■ 1 * Serial Port 9-pin Block ■ 1 * Parallel Port 25-Pin Block ■ 1 * SPDIF 9-pin Block ■ CD / AUX Audio in ■ 1 * Floppy Connector
■ BIOS	■ Award 4 MB Flash ROM
■ Form Factor	■ ATX Form Factor