

Mainboard Diagram



M25GT4-SOG

- NVIDIA nForce™550 MCH Chipset
- Support Socket AM2 64-bit dual core AMD Athlon™64 X2 processor
- Support HTT 1000MHz
- Embedded OC-CON Capacitors
- Dual Channel DDR2 800 Memory DIMMs Supported
- Support 4 Serial ATA Devices with RAID 0, 1, 0+1, 5
- Support NV Firewall
- Gigabit LAN Supported
- Azalia 8 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.

NVIDIA nForce™550 MCP / PCI Express MCPs for AMD Platforms

NVIDIA nForce4 based PCs feature the latest PCI-Express™ bus technology and deliver high performance, single-chip, low latency architecture of the NVIDIA nForce550 MCPs offer one of the industry's advanced core-logic solutions with qualified performance and the latest technologies—PCI Express, 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

CPU Thermal Throttling / The Anti-superheated CPU protection Technology

To prevent the increasing heat from damaging of CPU while the activation of the Bi-turbo technology, the CPU Thermal Throttling Technology will make CPU be idling from 87.5% to 12.5% by manually preset CPU operating temperature from 40°C to 90°C. When the system senses the climbing operating temperature of CPU over the value preset, CPU Thermal Throttling Technology will narrow the operating bandwidth of CPU actively to low down the temperature to the value preset as the perfect protection system of hardware dynamic over-clocking technology.

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!

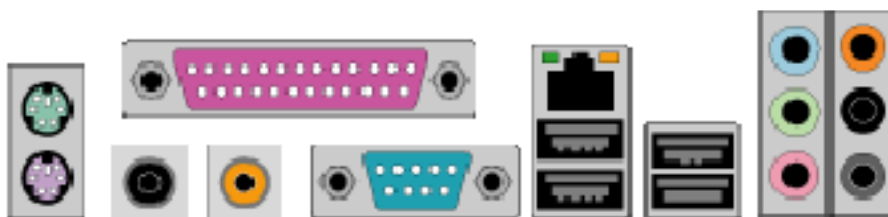
PCI Express Buses

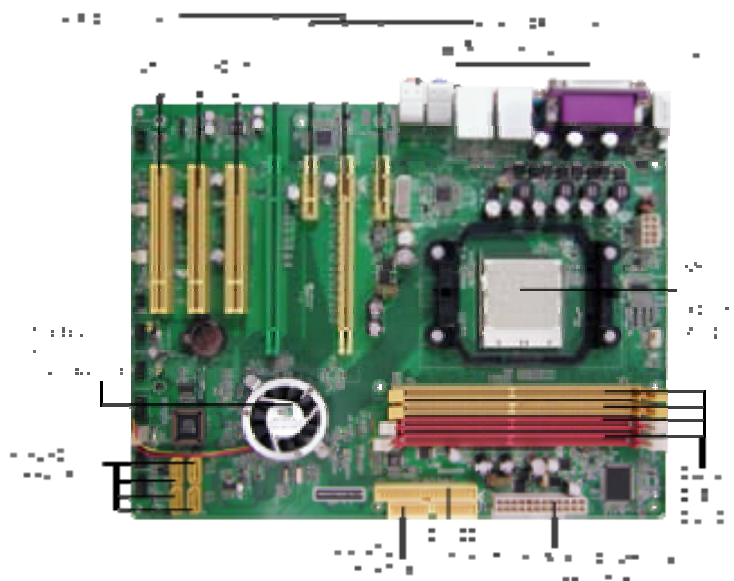
The PCI Express x16 graphics delivers up to 4 GB/s per direction x, 3.5 times more bandwidth than AGP8X and up to 8 GB/s concurrent bandwidth. PCI Express x1 I/O offers 500 MB/s concurrently, over 3.5 times more bandwidth than PCI at 133 MB/s, tackling the most demanding multimedia tasks nowadays.

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.

Rear I/O





Mainboard Specifications

■ CPU	<ul style="list-style-type: none"> ■ Socket AM2 HTT 1000 MHz AMDI® Athlon™64 With HyperTransport Technology ■ Compatible with 64-bit Dual Core AMD® Athlon™64 X2 Processor
■ Chipset	<ul style="list-style-type: none"> ■ nForce™550 MCP Single Chipset Technology
■ Memory	<ul style="list-style-type: none"> ■ 4 * 240-pin DIMM Sockets for unbuffered Dual DDR2 800 SDRAM up to 8 GB
■ Expansion Slots	<ul style="list-style-type: none"> ■ 3 * 32-bit PCI Slots / 2 * PCI EXPRESS x1 / 2 * PCI EXPRESS x16 Slots
■ Storage	<ul style="list-style-type: none"> ■ 2 * Ultra DMA 133 / 100 / 66 IDE Devices Support ■ Embedded nForce™550 MCP Chipset Supports 4 Serial ATA HDDs with RAID Functions.
■ Audio	<ul style="list-style-type: none"> ■ Realtek ALC883 8-Channel Azalia Audio CODEC
■ Ethernet LAN	<ul style="list-style-type: none"> ■ Marvel 88E1116 PCI 10 / 100 / 1000 LAN
■ USB	<ul style="list-style-type: none"> ■ Embedded 10 * High Speed USB @ 480 Mbit / s
■ Special Features	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 4 * High Speed USB Connectors @ 480 Mbit / s ■ 1 * Serial Port ■ 1 * Coaxial Audio In Conn. & 1 * Coaxial Audio out Conn. ■ 1 * Parallel Connector ■ 1 * PS / 2 Mouse & 1 * PS/2 Keyboard ■ 1 * RJ45 Connector ■ 1 * Audio I / O
■ Internal I / O	<ul style="list-style-type: none"> ■ 3 * High Speed USB Connectors @ 480 Mbit / s for 6 USB 2.0 Ports ■ CPU / Chassis Fan Connectors; 25-pin Parallel connector ■ 1 * 12V 4-pin ATX Power Connector and 1 * 24-pin ATX Power Connector ■ CD / AUX Audio in ■ 1 * Serial Port Header
■ BIOS	<ul style="list-style-type: none"> ■ Award 4 MB Flash ROM
■ Form Factor	<ul style="list-style-type: none"> ■ ATX Form Factor