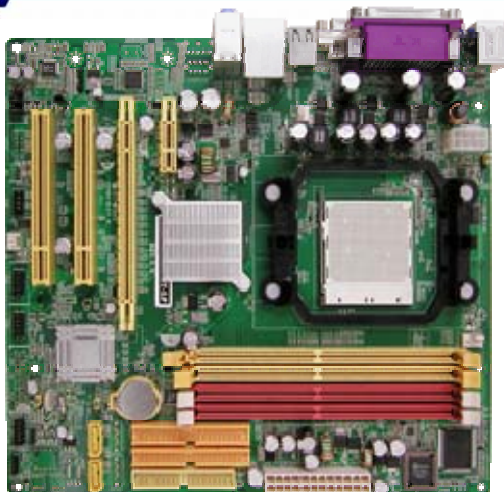


## Mainboard Diagram



### M2GT3-PTD

- NVIDIA GeForce™6100 GPU (C51G) + nForce™410 MCP Chipset (MCP51G)
- Support Socket AM2 64-bit Dual core AMD Athlon™64 X2 processor
- Support HTT 1000MHz
- Integrated 525MHz GeForce™6100 Graphics
- Dual Channel DDR2 800 Memory DIMMs
- Support 2 Serial ATA2 Devices with RAID 0, 1
- Support Hardware NV Firewall
- Ethernet LAN Supported
- AC'97 6 Channel Audio CODEC
- CPU Vcore 7-Shift
- Micro 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. Hyper-Transport™ technology can increase overall system performance by removing I/O bottlenecks, increasing system bandwidth, and reducing system latency.

### NVIDIA GeForce™6100 GPU(C51G) and nForce™410 MCP(MCP51G) / The ultimate enthusiast platform

NVIDIA GeForce™6100 GPU(C51G) based Motherboards are industry's first motherboards with Microsoft® DirectX® 9.0 Shader Model 3.0 capability. NVIDIA GeForce 6 Series GPUs deliver ultra-realistic effects and unmatched multimedia functionality for an incredible PC experience on popular games and multimedia applications. And nForce™410 MCP(MCP51G) chipset implements the next-generation PCI-Express bus architecture and Serial ATA2 devices supported features for the scalability and flexibility of the expansion abilities of the outstanding motherboards.

### 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.

### Serial ATA2 with RAID

Serial ATA2 is an evolutionary replacement for the Parallel ATA physical storage interface. Users of the Serial ATA2 interface benefit from greater speed, simpler upgradeable storage devices and easier configuration. Integrated Serial ATA2 controller of high-speed data transfers at up to 300 MB/s for each port and optional available on different model is RAID 0 and RAID 1 support.

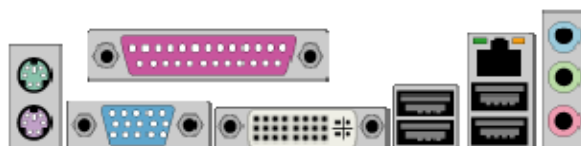
### CPU Smart Fan / The Noise Restrained System

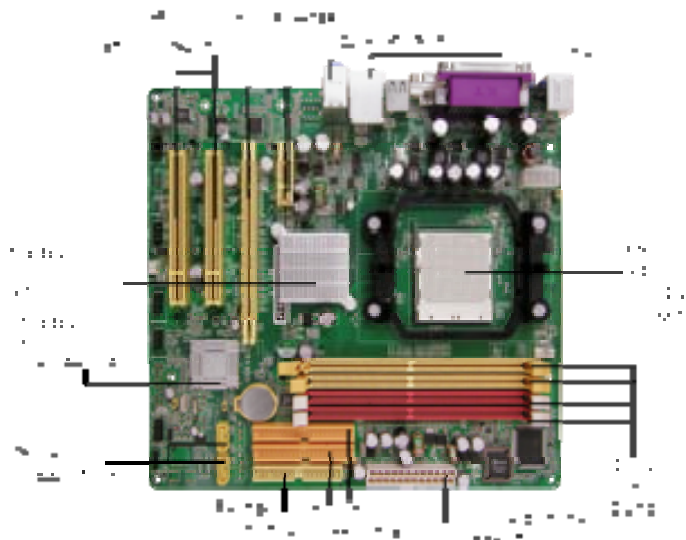
It's never been a good idea to sacrifice the sound effects for gaining the performance you need. CPU Smart Fan Noise Restrained System is the answer to all the noise restrained needed high performance computing system, the system will automatically increase the fan speed when CPU operating loading is high, after the CPU is in normal operating condition, the system will low down the fan speed for the silent operating environment. The system can provide the much longer life cycle for both CPU and the system fans for game use and business requirements.

### 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"> <li>■ Socket AM2 HTT 1000 MHz AMD® Athlon™64 With HyperTransport Technology</li> <li>■ Compatible with 64-bit Dual Core AMD® Athlon™64 X2 Processor</li> </ul>
■ Chipset	■ GeForce™6100 GPU(C51G) + nForce™410 MCH Chipset (MCP51G)
■ Memory	■ 4 * 240-pin DIMM Sockets for unbuffered Dual DDR2 800 SDRAM up to 4 GB
■ Expansion Slots	■ 2 * 32-bit PCI Slots / 1 * PCI EXPRESS x1 / 1 * PCI EXPRESS x16 Slot
■ Storage	<ul style="list-style-type: none"> <li>■ 4 * Ultra DMA 133 / 100 / 66 IDE Devices Support</li> <li>■ Embedded nForce™410 MCP Chipset (MCP51G) Supports 2 Serial ATA2 HDDs with RAID Functions.</li> </ul>
■ Audio	■ Realtek ALC655 6-Channel AC 97' Audio CODEC
■ Ethernet LAN	■ Realtek RTL 8201CL 10 / 100 PCI LAN PHY
■ USB	■ Embedded 8 * High Speed USB @ 480 Mbit / s
■ Special Features	<ul style="list-style-type: none"> <li>■ Advanced Power Design that supports the latest Socket-754 K8 CPU</li> <li>■ "IMAGE IT!" System Backup Software and "ProMagicPLUS!" System Recovery System</li> </ul>
■ Rear Panel I / O	<ul style="list-style-type: none"> <li>■ 4 * High Speed USB Connectors @ 480 Mbit / s</li> <li>■ 1 * Serial Port</li> <li>■ 1 * D-Sub 15-pin VGA Connector and 1 * DVI Connector</li> <li>■ 1 * Parallel Connector</li> <li>■ 1 * PS / 2 Mouse &amp; 1 * PS/2 Keyboard</li> <li>■ 1 * RJ45 Connector</li> <li>■ 1 * Audio I / O</li> </ul>
■ Internal I / O	<ul style="list-style-type: none"> <li>■ 2 * High Speed USB Connectors @ 480 Mbit / s for 4 USB 2.0 Ports</li> <li>■ CPU / Chassis Fan Connectors; 25-pin Parallel connector</li> <li>■ 1 * 12V 4-pin ATX Power Connector and 1 * 24-pin ATX Power Connector</li> <li>■ CD / AUX Audio in</li> <li>■ 1 * TV-Out</li> </ul>
■ BIOS	■ Award 4 MB Flash ROM
■ Form Factor	■ Micro ATX Form Factor