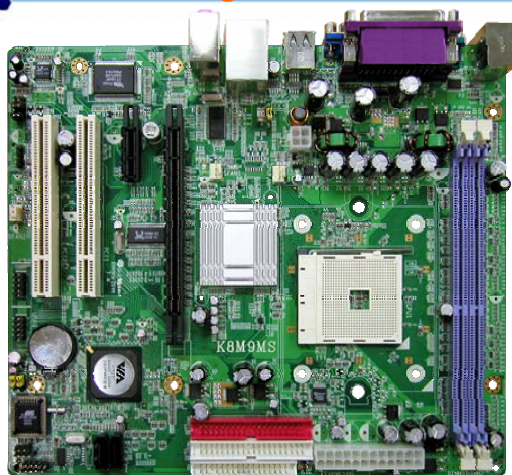## Mainboard Diagram

K8M9MS
- VIA® K8M890 Northbridge Chipset + VT8237RP Southbridge Chipset
- Support 64-bit AMD Sempron™64 processor
- Support HTT 800MHz
- Integrated VIA® UniChrome™ Pro Graphics
- Single Channel DDR400 Memory DIMMs
- Support 2 Serial ATA Devices with RAID 0, 1
- Support Hyper8™ Technology
- Ethernet LAN Supported
- AC'97 6 Channel Audio CODEC
- Micro ATX Form Factor

Features and Benefits

Socket 754 AMD® Athlon64® Processor with Hyper Transport Technology Supported

Advanced platform which meets the world's most famous 3D games DOOM 3 with the 64-bit computing ready AMD® Athlon64 Processors with Hyper Threading Technology for the next generation demanding usage of Home Networking and Game Enthusiasts.

Advanced Power Design to Meet the Standards of Next Generation 64-bit Processors

3-Phase Power design to meet the standards of next generation 64-bit computing for the future System Updating with the latest Socket-754 AMD® Athlon64™ Processors with Hyper Transport Technology and Cost-effective Main Stream AGP 8X Graphic Accelerators.

VIA® K8M890 Chipset and VT8237RP Chipset deliver the Reliability and I/O Flexibility

Support the 800MHz Front Side Bus, Dual PC3200 DDR SDRAM, AGP 8X, USB 2.0, and 10 / 100 Ethernet Network Interface Controller. K8M9MS gets the balance between the System Reliabilities and Performance which extends the circle of usage to your system memories and graphic accelerators.

Hyper8™ Technology Supported

VIA's ground breaking Hyper8™ technology provides a fast 16-bit/1.6GHz HyperTransport link between the K8M800 North Bridge and next generation 64-bit compatible platforms based around AMD Athlon™ 64 processors, achieving data transfers speeds of up to 6.4GB/s. Combined with the VIA VT8237 South Bridge and VIA companion chips, the K8M800 enables an unparalleled range of cutting edge I/O and multimedia features

Integrated UniChrome Pro GFX

At the heart of the K8M800 North Bridge lies the all new S3 Graphics UniChrome™ Pro IGP, delivering a rich visual experience through the implementation of innovative features such as integrated MPEG-2 hardware acceleration for flawless digital media playback and a dual pixel pipeline, 128 bit 2D/3D engine with support for up to 64MB of shared 64/128bit DDR memory for robust 3D gaming and applications. The K8M800's highly flexible and scalable architecture also allows for an external AGP 8X port for optional graphic card upgrades.

Serial ATA RAID Supported

To get more benefits from flexible and reliable data flow during daily computing, KM8MS supports RAID 0, 1,and JBOX functions.
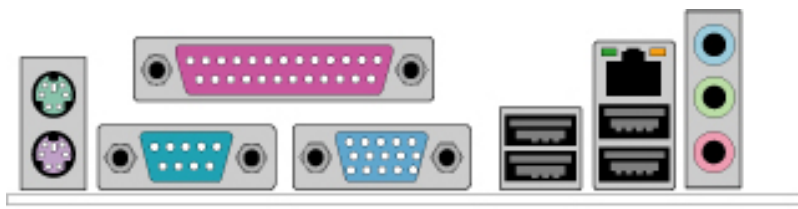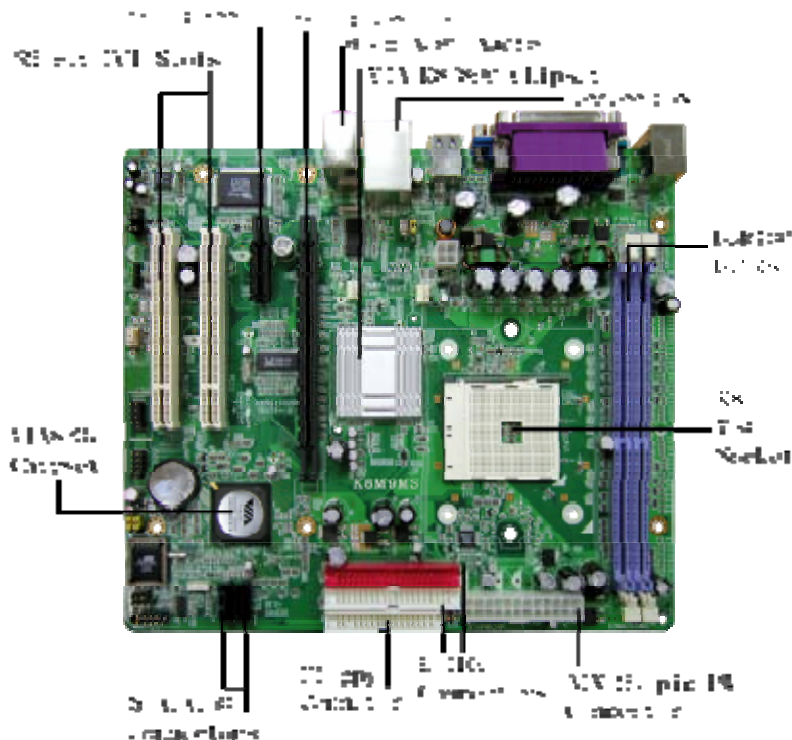
HyperT Tune

Adjustable CPU Ratio/ Frequency and Voltage for optimal and more stable over-clocking operation.

HyperV Tune

Adjustable DRAM and North Bridge Voltage for optimal and more stable over-clocking operation.

Rear I / O

Mainboard Specifications

■ CPU	■	Socket 754 HTT 800 MHz AMD® Athlon™64 With HyperTransport Technology
	■	Compatible with 64-bit AMD® Sempron™ Processor
■ Chipset	■	VIA®™ K8M890 Northbridge Chipset + VT8237 Southbridge Chipset
■ Memory	■	2 * 184-pin DIMM Sockets for unbuffered DDR 400 SDRAM up to 2 GB
■ Expansion Slots	■	2 * 32-bit PCI Slots / 1 * PCI EXPRESS x1 / 1 * PCI EXPRESS x16 Slot
■ Storage	■	4 * Ultra DMA 133 / 100 / 66 IDE Devices Support
	■	Embedded VIA 8237RP South Bridge Chipset Supports 2 Serial ATA HDDs with RAID Functions.
■ Audio	■	Realtek ALC655 6-Channel AC 97' Audio CODEC
■ Ethernet LAN	■	VIA VT6103 10 / 100 PCI LAN PHY
■ USB	■	Embedded 8 * High Speed USB @ 480 Mbit / s
■ Special Features	■	Advanced Power Design that supports the latest Socket-754 K8 CPU
	■	Integrated VIA UniChrome Pro Graphics Core
	■	"IMAGE IT!" System Backup Software and "ProMagicPLUS!" System Recovery System
■ Rear Panel I / O	■	4 * High Speed USB Connectors @ 480 Mbit / s
	■	1 * Serial Port
	■	1 * D-Sub 15-pin VGA Connector
	■	1 * Parallel Connector
	■	1 * PS / 2 Mouse & 1 * PS/2 Keyboard
	■	1 * RJ45 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; 25-pin Parallel connector
	■	1 * 12V 4-pin ATX Power Connector and 1 * 24-pin ATX Power Connector
	■	CD / AUX Audio in
■ BIOS	■	Award 2 MB Flash ROM
■ Form Factor	■	Micro ATX Form Factor