

VIA PERFORMANCE CHIPSET

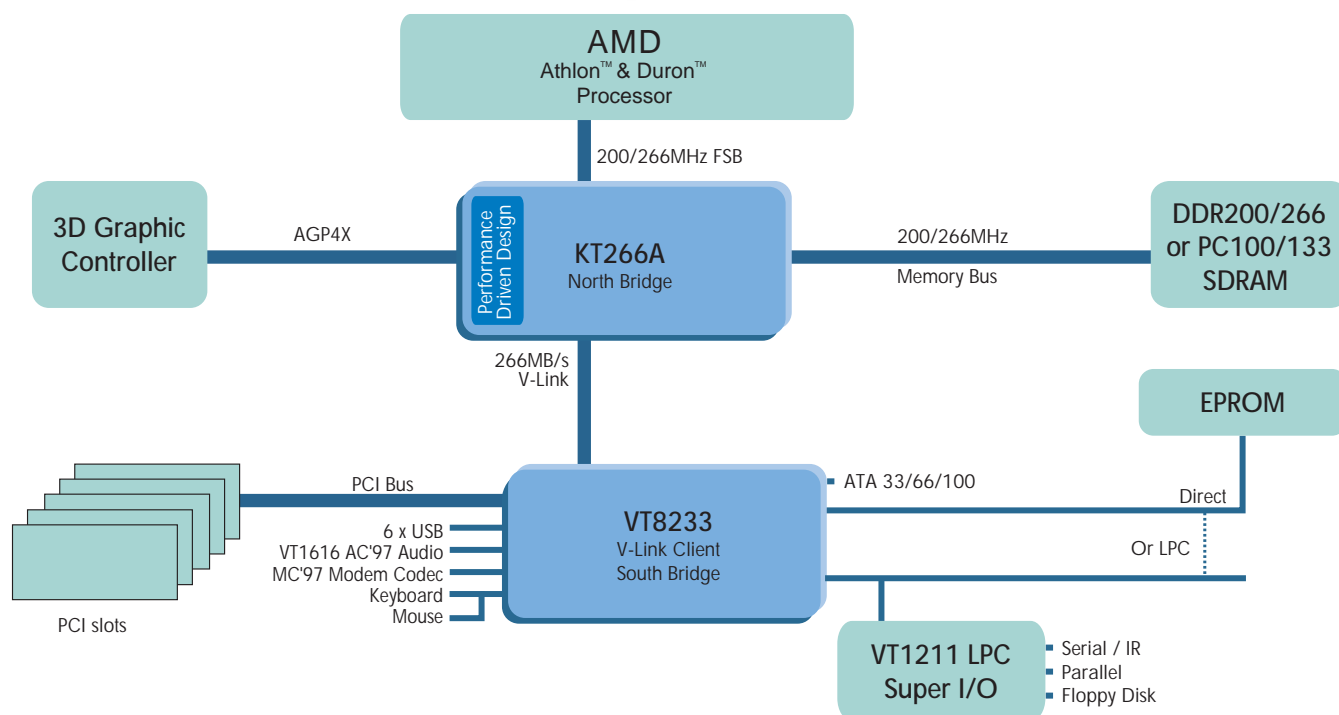
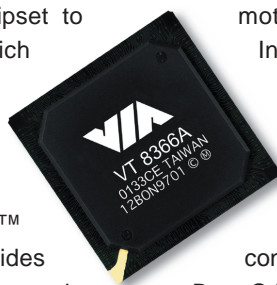
Apollo KT266A

Building on the proven power and reliability of the VIA Apollo KT266, the VIA Apollo KT266A further raises the performance bar for AMD Athlon™ and AMD Duron™ processor based systems.

The VIA Apollo KT266A is the first VIA chipset to feature Performance Driven Design, which includes tightened timings and deeper queues to greatly increase memory and system bus performance. Supporting DDR200/266 memory and a complete range of 200/266MHz Front Side Bus AMD Athlon™ and AMD Duron™ processors, the VIA Apollo KT266A provides lightning fast access to system memory and increased overall system performance.

The VIA Apollo KT266A is part of the V-MAP family of chipsets, which provides pin compatibility across the full range of VIA DDR products. VMAP, or VIA Modular Architecture Platform, allows

motherboard manufacturers, OEMs, and System Integrators to serve different market segments with a single, unified platform design. The VIA Apollo KT266A (model number VT8366A) is completely pin-compatible with the VIA Apollo KT266 (VT8366) to ensure rapid time to market. It can be paired with a choice of VT8233/VT8233C South Bridges, which are connected through the chipset's high bandwidth V-Link Bus. Other key features include AGP4X, ATA-100, and PC133 support, as well as integrated six channel advanced audio, six USB ports, LPC bus, and integrated 10/100Mbps Ethernet or 1/10 Home PNA, AC-97 audio, MC-97 modem, and support for AMD's second generation PowerNow!™ technology.



VIA PERFORMANCE CHIPSET

Apollo KT266A



Features	VIA Apollo KT266A	VIA Apollo KT266	VIA Apollo KT133A
North Bridge	VT8366A	VT8363A	VT8363A
Processor Support	AMD Athlon™ 200/266MHz FSB AMD Duron™	AMD Athlon™ 200/266MHz FSB AMD Duron™	AMD Athlon™ 200/266MHz FSB AMD Duron™
CPU Front Side Bus	200/266MHz	200/266MHz	200/266MHz
AGP 4X Support	Yes	Yes	Yes
Memory Type	DDR200/266 SDRAM PC100/133 SDRAM VC SDRAM	DDR200/266 SDRAM PC100/133 SDRAM VC SDRAM	PC100/133 SDRAM VC SDRAM
Memory Bus Settings	100/133/200/266MHz	100/133MHz	100/133MHz
Max. Memory	4.0GB	4.0GB	1.5GB
South Bridge	VT8233/VT8233C	VT8233/VT8233C	VT82C686B
North/South Bridge Link	VIA V-Link @ 266MB/sec	VIA V-Link @ 266MB/sec	PCI @ 133MB/sec
ACR Support	Yes	Yes	Yes
Integrated Audio	AC'97-6 channel	AC'97-6 channel	AC'97-2 channel
Integrated Modem	MC'97	MC'97	MC'97
Integrated Network Controller	10/100 BaseT Ethernet	10/100 BaseT Ethernet	10/100 BaseT Ethernet
IDE	1/10Mb HomePNA	1/10Mb HomePNA	1/10Mb HomePNA
USB	ATA-33/66/100	ATA-33/66/100	ATA-33/66/100
Power Management	6 ports ACPI/OnNow™ PMM PowerNow™	6 ports ACPI/OnNow™ PMM PowerNow™	4 ports ACPI/OnNow™ PMM PowerNow™

Benefits of VIA Apollo KT266A

Performance Driven Design

The VIA Apollo KT266A features an enhanced memory controller, designed with exceptionally high performance in mind. Supporting DDR200/266 memory, the VIA Apollo KT266A provides lightning fast access to system memory. Timings have been improved, resulting in faster transfers between the synchronized Front Side Bus and Memory Bus. Data queues have been deepened, allowing faster and more efficient access to buffered data. The end result is the industry's fastest DDR memory controller.

VIA Modular Architecture Platform

The VIA Apollo KT266A is part of the family of VIA Modular Architecture Platforms (V-MAP). As a modular solution, the North and South Bridge of the VIA Apollo KT266A are completely pin compatible with current and future products, such as the VT8233C South Bridge with integrated 3Com® Ethernet MAC. VMAP allows flexibility when designing a system around the VIA Apollo KT266A chipset, enabling OEMs and System Integrators to reach different market segments with a single platform.

VIA Stability and Reliability

VIA Apollo chipsets benefit from the most advanced design, manufacturing and testing processes yielding the industry's most reliable and stable system platforms.

Features

- Supports AMD Duron™ and Athlon™ Socket A processors
- 200/266MHz FSB settings
- Support for AGP 2X/4X
- Supports up to 4.0GB DDR200/266 SDRAM as well as PC100/133 SDRAM and Virtual Channel memory
- 266MB/sec high bandwidth North/South Bridge V-Link
- Support for Advanced Communications Riser (ACR)
- Integrated 6 channel AC-97 Audio
- Integrated MC-97 Modem
- Integrated 10/100 BaseT Ethernet and 1/10Mb HomePNA controller
- Support for ATA-33/66/100
- 6 USB ports, UHCI compliant
- Advanced power management capabilities including ACPI/OnNow™
- 552-pin BGA VT8366A North Bridge
- 376-pin BGA VT8233 South Bridge