



KT^{DDR}266A

KT266A
Chipset Introduction

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Mainstream AMD DDR Elusive

- **Many Solutions on the Market**
 - Chipsets from VIA, AMD, ALi, and SiS
- **No Clear Performance/Feature Set Leader**
 - Motherboard manufacturers hedging their bets, developing for all chipsets
- **Platform fragmentation slowing the acceptance of DDR on AMD platforms**
 - OEMs, System Integrators, End Users, Channel confused by lack of clear platform leadership

VIA Leads DDR Platform Development

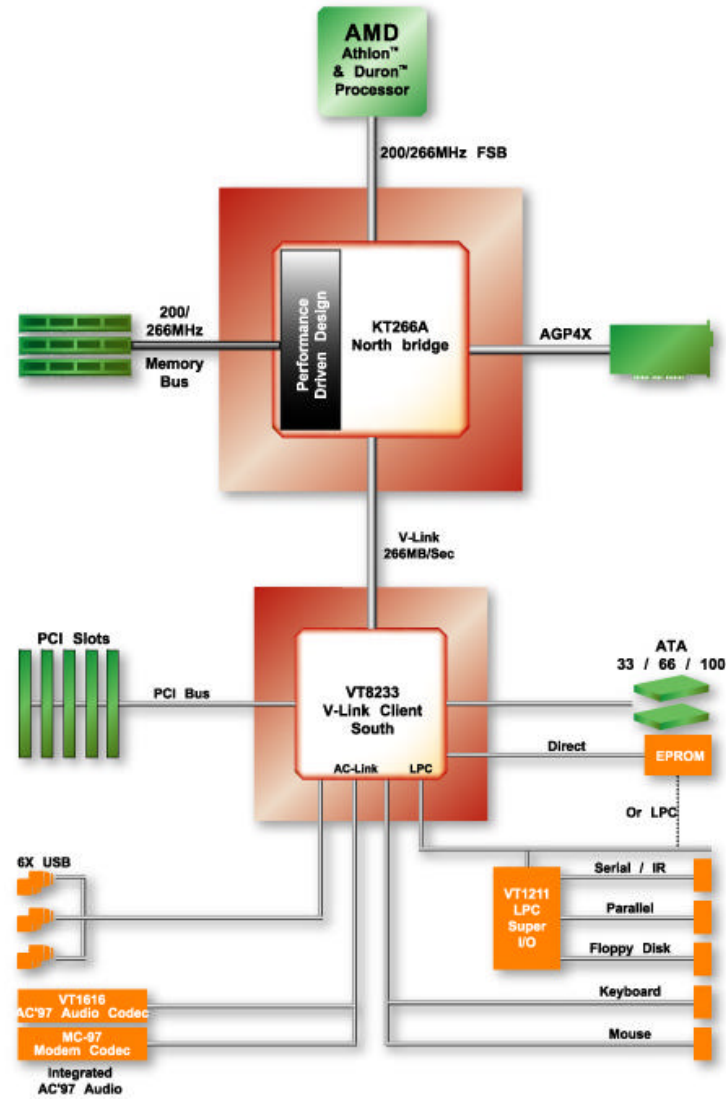
- **First available P6 bus DDR chipset**
 - VIA Apollo pro266 first available DDR-SDRAM chipset for Intel® Pentium® III processors
- **First mass produced K7 bus DDR chipset**
 - VIA Apollo KT266 first widely available DDR-SDRAM chipset for AMD Athlon™ and Duron™ processors
- **First available P7 bus DDR chipset**
 - VIA Apollo P4X266 brings DDR-SDRAM to the Pentium 4 platform for the first time

The Definitive AMD DDR Chipset



- **VIA Apollo KT266A eliminates the doubt**
 - Performance Driven Design
 - Established Motherboard Base
 - V-MAP Scalability and Flexibility

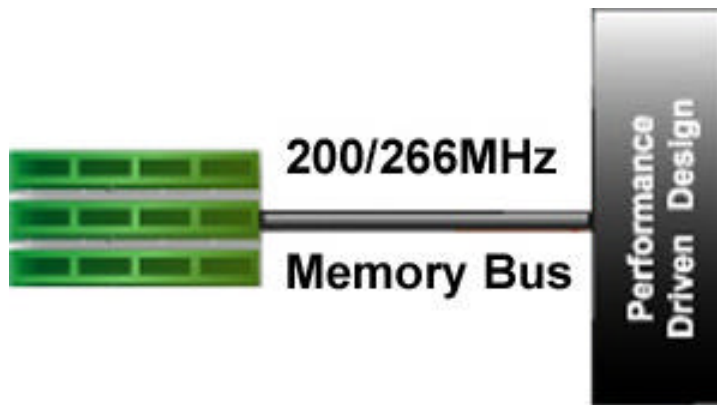
KT266A Chipset Block Diagram



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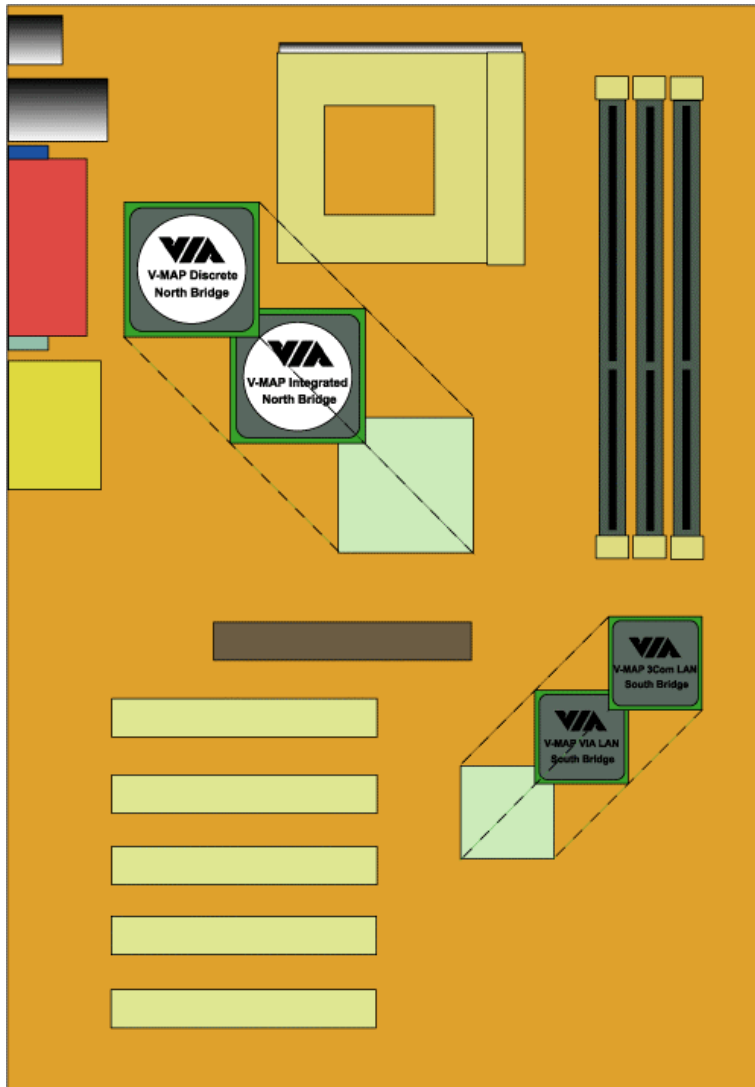
Performance Driven Design



- **Enhanced Memory Controller**

- Supports DDR200/DDR266
- Tightened Timings
 - Decreases latency, increases effective bandwidth
- Deeper Queuing
 - Allows more instructions “in flight”, hiding latency penalties
- New Abilities
 - Can burst up to eight Quad Words in a clock cycle

VIA Modular Architecture Platform



- **V-MAP**
 - Multiple Pin-to-Pin Compatible South Bridge options
 - Drop-in replacement for KT266
 - Future Pin-to-Pin Compatible North Bridge migration options
- **Seamless product transitions on a single motherboard platform**
 - Faster Time to Market
 - Lower Product Development, Validation, and Production costs

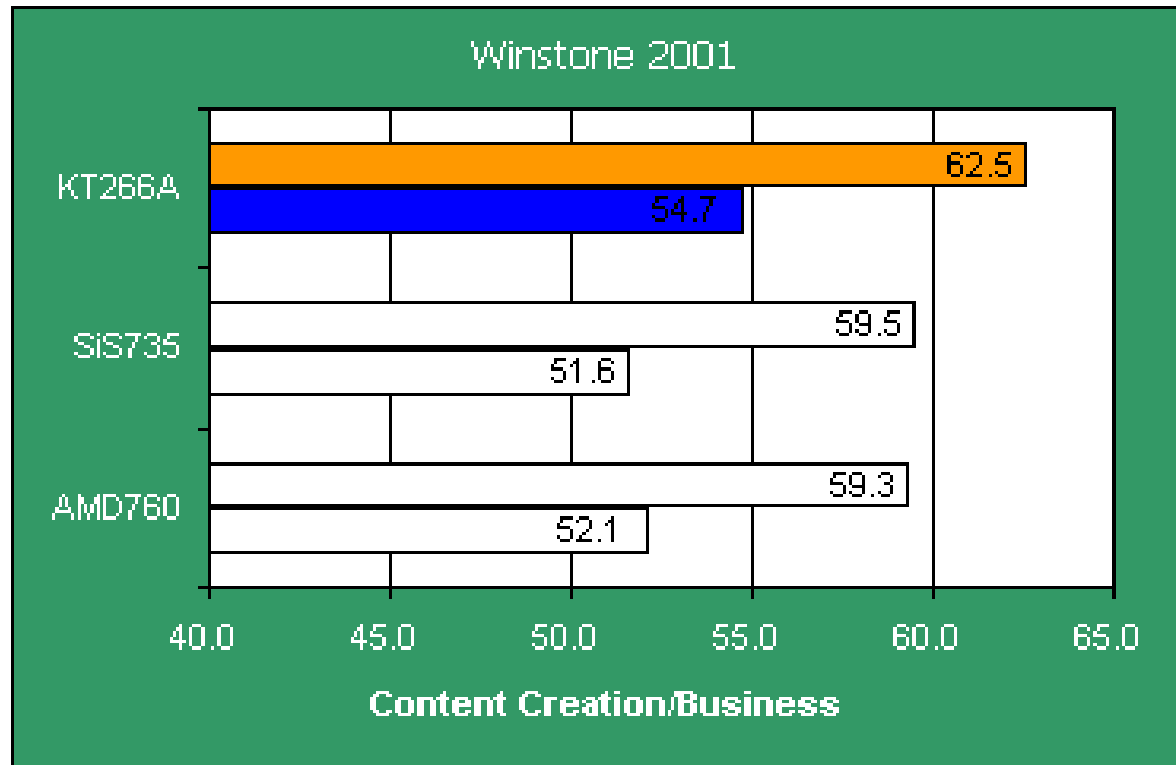
AMD DDR Chipset Comparison

| Feature | AMD760 | KT266A | SiS735 |
|-------------------------------|-----------------------------|----------------------------------------------------------------------------|--------------------------------------|
| North Bridge | AMD761 | VT8366A | SiS735 |
| Processor Support | AMD Athlon AMD Duron | AMD Athlon AMD Duron | AMD Athlon AMD Duron |
| Front Side Bus | 200/266MHz | 200/266MHz | 200/266MHz |
| AGP Support | 2X/4X | 2X/4X | 2X/4X |
| Memory Type | PC133 SDRAM DDR266 SDRAM | PC133 SDRAM DDR266 SDRAM | PC133 SDRAM DDR266 SDRAM |
| Max. Memory | 2.0GB | 4.0GB | 3.0GB |
| South Bridge | AMD766 | VT8233/VT8233C | None |
| North/South Bridge Link | Intel Hub | VIA V-Link | SiS MuTIOL |
| Requires new board design | Yes | No | Yes |
| ACR Support | No | Yes | Yes |
| Integrated Audio | None | AC'97 2.2 Compliant | AC'97 2.2 Compliant |
| Integrated Modem | None | MC'97 | MC'97 |
| Integrated Network Controller | None | VIA or 3Com Ethernet MAC -10/100 Ethernet -1/10 HomePNA | SiS Ethernet MAC -10/100 Ethernet |
| PCI Devices/Slots | 6 PCI | 6 PCI | 6 PCI |
| IDE | ATA 33/66/100 | ATA 33/66/100 | ATA 33/66/100 |
| USB | 4 Ports, 2 Controllers | 6 Ports, 3 controllers | 6 Ports, 3 controllers |
| Super I/O | LPC Super I/O | LPC Super I/O | LPC Super I/O |
| IO APIC | Yes | Yes | Yes |
| Power Management | ACPI/APM/PCI/PM | ACPI/APM/PCI/PM | ACPI/APM/PCI/PM |

KT266 Benchmark Highlights

- **Exceptional Office and Content Creation Performance**
 - Over 5% better performance than SiS735 in Winstone Business an Content Creation
 - 3.8% better performance than SiS735 in Sysmark
- **Superior 3D Graphics & Gaming Performance**
 - 3% better performance than SiS735 in 3DMark2001
 - Eclipses SiS735 by 9.7% in Quake III Arena
- **Performance Driven Design Shows**
 - Between 23% and 26% faster memory performance then SiS735 using the exact same memory configuration

Winstone 2001 Performance



Test System Configurations:

1.4GHz AMD Athlon™ processor; KT266A Reference MB; 256MB DDR266 SDRAM; Asus Geforce3 AGP card; 30GB IBM 307030 ATA 100 HDD; Windows 98 SE.

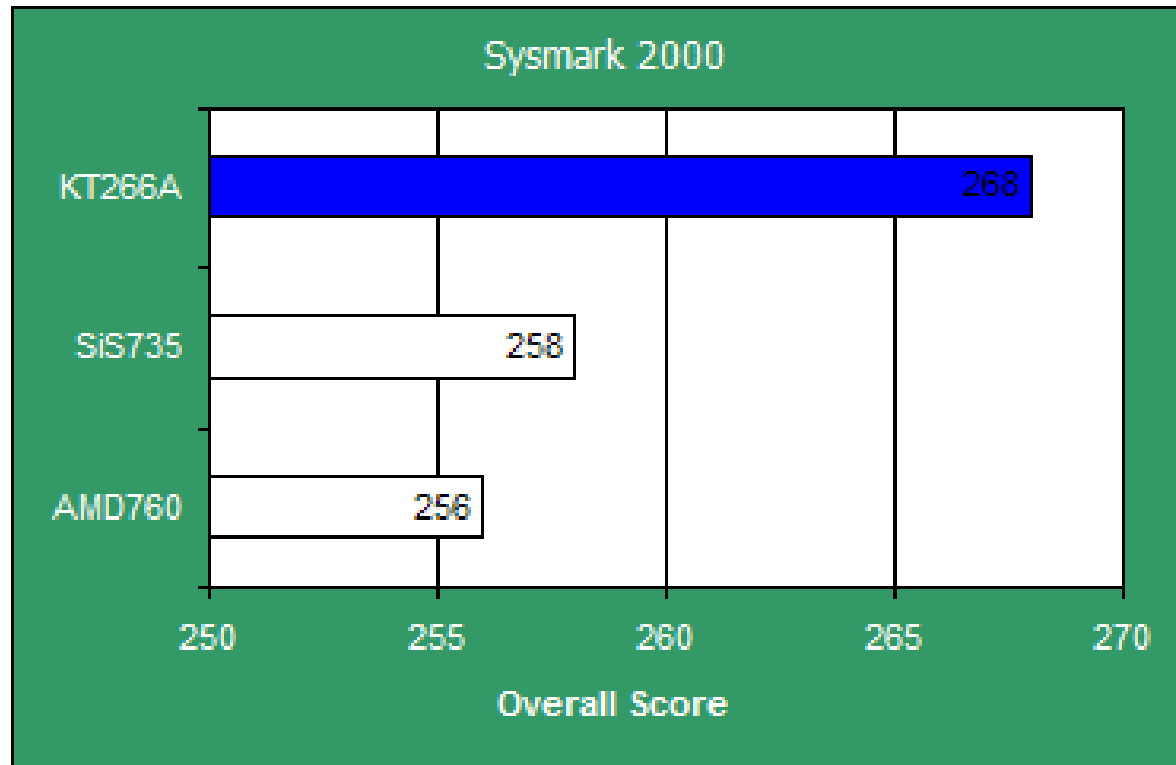
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Sysmark 2000 Performance



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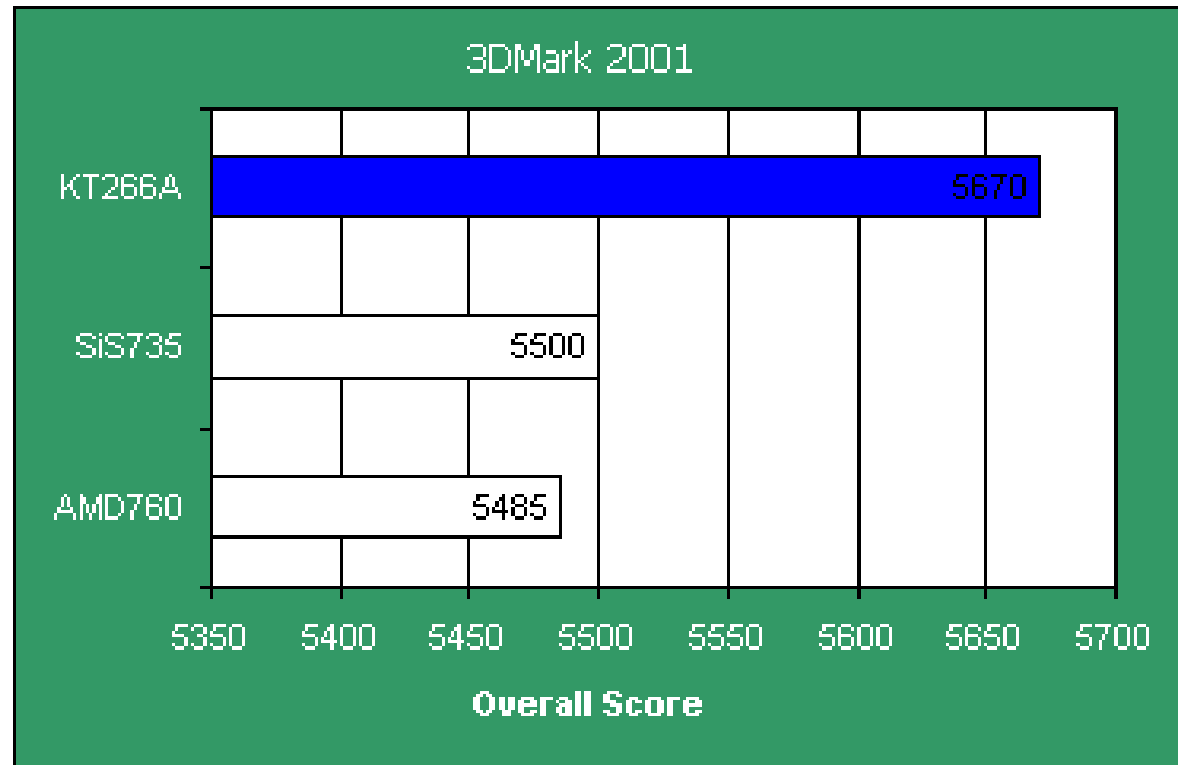
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3DMark Pro 2001 Performance



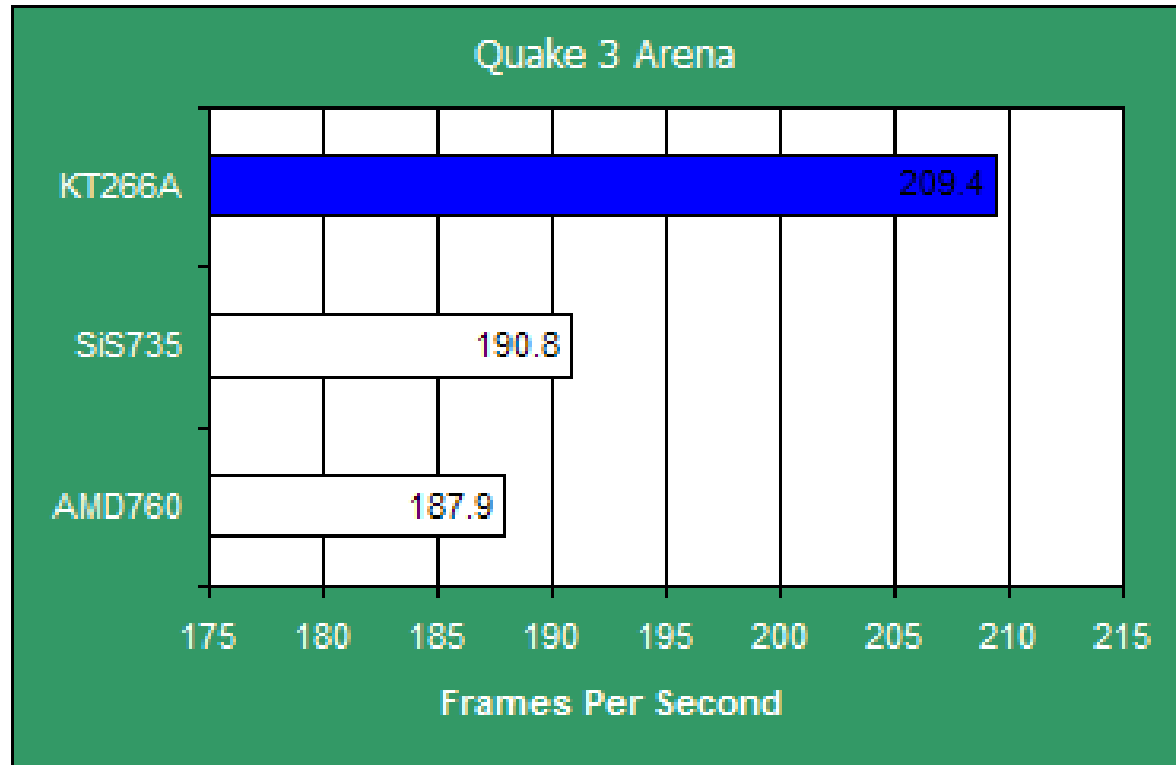
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Quake III Performance



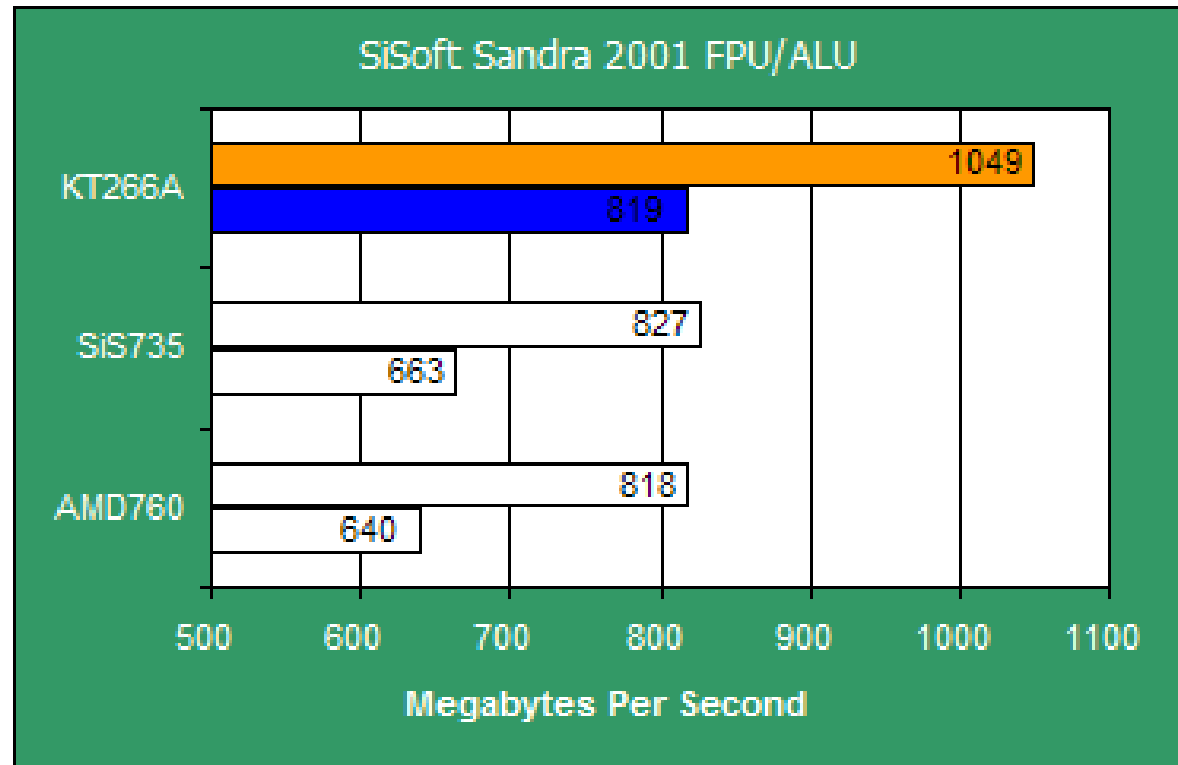
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Sisoft Sandra Performance



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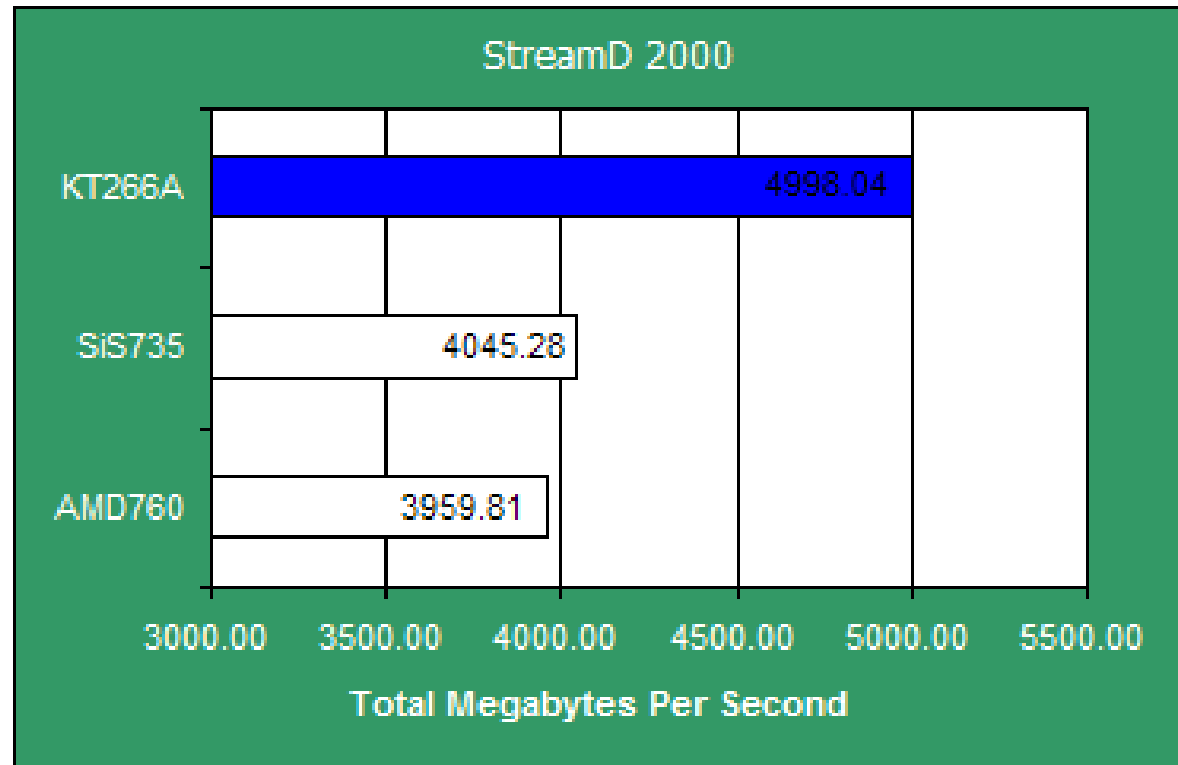
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StreamD 2000 Performance



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VIA Apollo KT266A: The Ultimate AMD DDR Chipset

- **Ultimate Performance**

- Performance Driven Design provides significantly better memory performance than competitors, yielding greater overall system performance

- **Ultimate Platform Stability**

- V-MAP compatible, allowing simple transition from KT266 and easy upgrades to future products

- **Ultimate Feature Set**

- Flexible memory, processor, and South Bridge support enables OEMs and System Integrators to reach multiple market segments with a single platform

Final Comments

- **Please observe publication embargo until September 3rd, 2001**
- **Thks very much for your interest!**