



**KM<sup>DDR</sup>266**

**VIA**

**ProSavageDDR KM266  
Chipset Introduction**

# VIA: The Chipset Leader For The Processor AMD Platform

Desktop	
<b>KT266A</b>	The undisputed performance leader for the AMD Athlon™ XP. The KT266A has won more awards than any other DDR266 chipset.
<b>KT133A</b>	Proven performance, stability and value. The bestselling chipset for AMD processor based PC systems.
<b>KM133</b>	The value leader with integrated ProSavage4™ graphics PC133.
Mobile	
<b>KN266</b>	The fastest mobile chipset with DDR266 memory and ProSavage8™ AGP 8X equivalent graphics.
<b>KN133</b>	For value mobile systems, featuring integrated ProSavage4™ graphics.



# KM<sup>DDR</sup>266

Driving Powerful AMD Athlon™ XP processor based systems into new markets

- AMD Athlon™ XP processor based systems with QuantiSpeed™ architecture, ProSavage8™ integrated graphics and DDR memory offer an unsurpassed combination of performance and value
- Solid driver set, stability and performance of S3 Graphics ProSavage8™ engine minimizes deployment risk for corporate customers
- VIA Modular Architecture Platform (V-MAP) offers an industry leading choice of networking and communication features including ultra fast ATA-133.

# Enhanced ProSavage8™ 2D/3D Graphics

ProSavage8 High Performance Integrated Graphics Shared Memory Architecture (SMA) enables the ProSavage8™ graphics to utilize the system memory for frame buffer and texture memory.

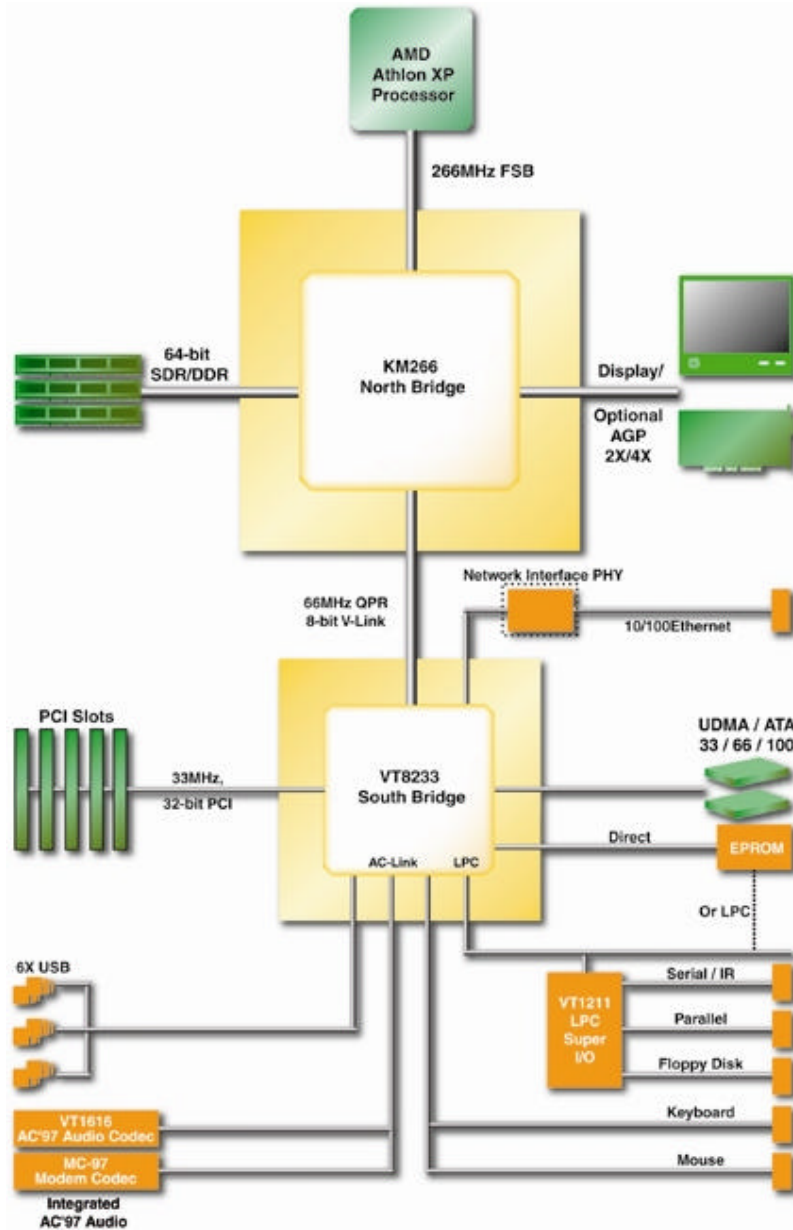
- 128-bit internal data paths
- Effective AGP 8X internal bandwidth
- 2.1GB/s transfer rate
- 8M triangles/s
- 32-bit Rendering, Bump Mapping,
- S3TC Texture Compression
- DSTN and LVDS LCD Support
- 8KByte Texture Cache
- DVD Motion Compensation 30fps
- AGP 4X Sideband Addressing



"VIA's ProSavageDDR delivers high-quality graphics whilst maintaining a high average frame rate."

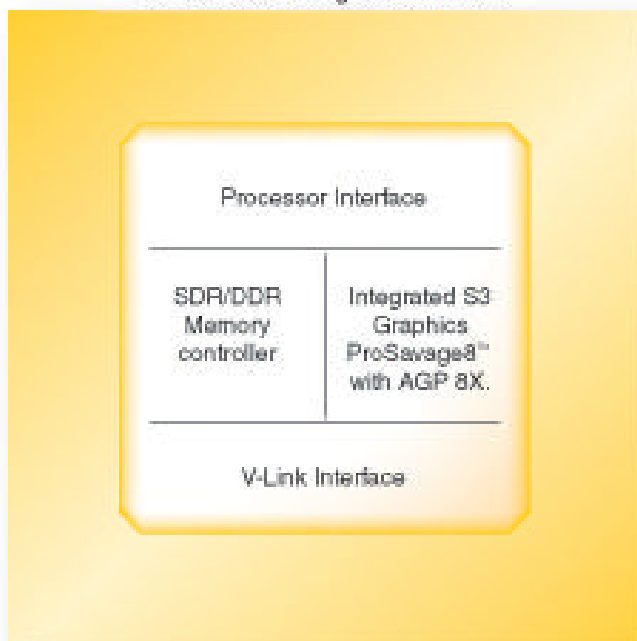


# VIA ProSavageDDR KM266 Block Diagram



# KM266 North Bridge Highlights

KM266 North Bridge Architecture



## Leading Edge Performance Features

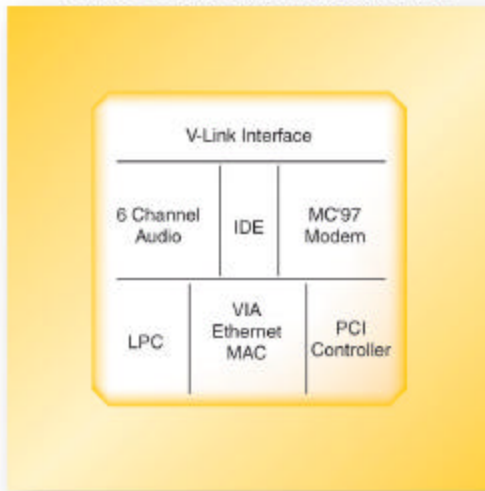
- 200/266MHz Front Side Bus
- Integrated S3 Graphics ProSavage8™ Graphics Core with internal AGP 8X equivalent bandwidth, 32MB Frame Buffer and DVD Motion Compensation
- Support for up to 4GB High-Speed DDR200/266 SDRAM
  - Peak data transfer rate of 2.1GB/sec
- High Speed V-Link Architecture
  - Peak bandwidth of 266MB/s

## Unmatched Flexibility & Scalability

- Supports AMD Athlon™ XP and AMD Duron™ processors
- Optional External AGP 4X Port for easy upgrade
- Supports up to 4GB DDR200/266 or PC100/133 System Memory

# V-MAP South Bridge Options

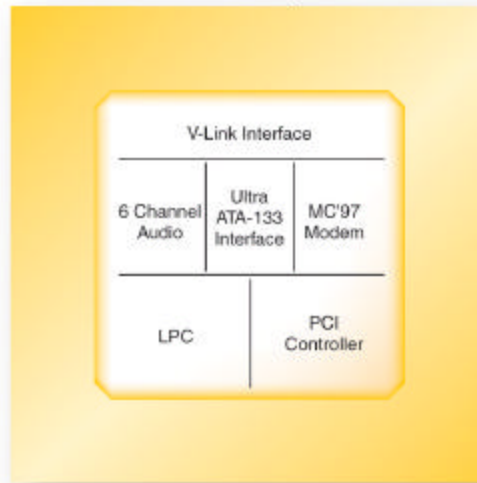
**VT8233 South Bridge Architecture**



**VT8233**

V-Link South Bridge  
 AC/97 audio, MC'97 Modem  
 6 ports USB  
 VIA MAC with MII Interface  
 Home PNA, 10/100 BT w/ Ext. PHY  
 Dual UDMA 33/66/100,  
 LPC Super IO/APIC  
 Adv. Power Management

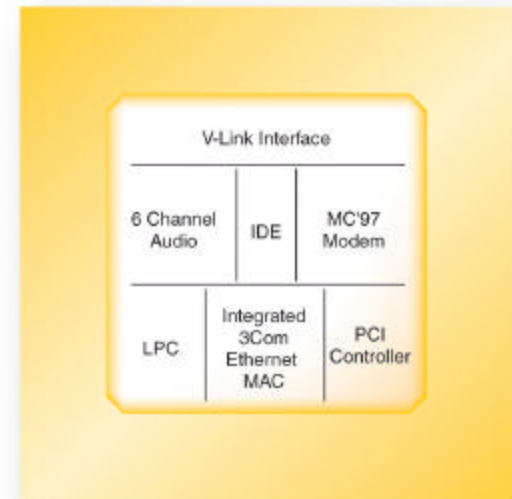
**VT8233A South Bridge Architecture**




**VT8233A**

V-Link South Bridge  
 AC/97 audio, MC'97 Modem  
 4 ports USB  
 Dual ATA 33/66/100/**133**  
 LPC Super IO/APIC  
 Adv. Power Management

**VT8233C South Bridge Architecture**



**VT8233C**

V-Link South Bridge   
 AC/97 audio, MC'97 Modem  
 6 ports USB  
 3Com® 10/100 Ethernet MAC  
 Dual UDMA 33/66 100,  
 LPC Super IO/APIC  
 Adv. Power Management



# VIA VT8233A - First to market with the latest IDE interface standards in partnership with Maxtor



ATA-133 is the fastest IDE standard currently available on the market, and allows each separate IDE controller to burst up to 133MB/s, for a total of 266MB/s of bandwidth. This offers a significant performance improvement in data intensive professional applications like spreadsheets and in consumer applications including DVD playback. Each controller also supports up to two devices, for a total of four ATA capable drives.



The enhanced IDE controller supports all Ultra-DMA 33/66/100/133 devices including HDDs, CD-ROMS and DVD-ROMs as well as new generation BigDrive™ HDDs that break the existing 137GB limit on hard drive capacity and enable an exponential increase in data storage capacity for personal computing devices.



# KM266 Performance Highlights

## Stunning Productivity Application Performance under Windows XP Professional

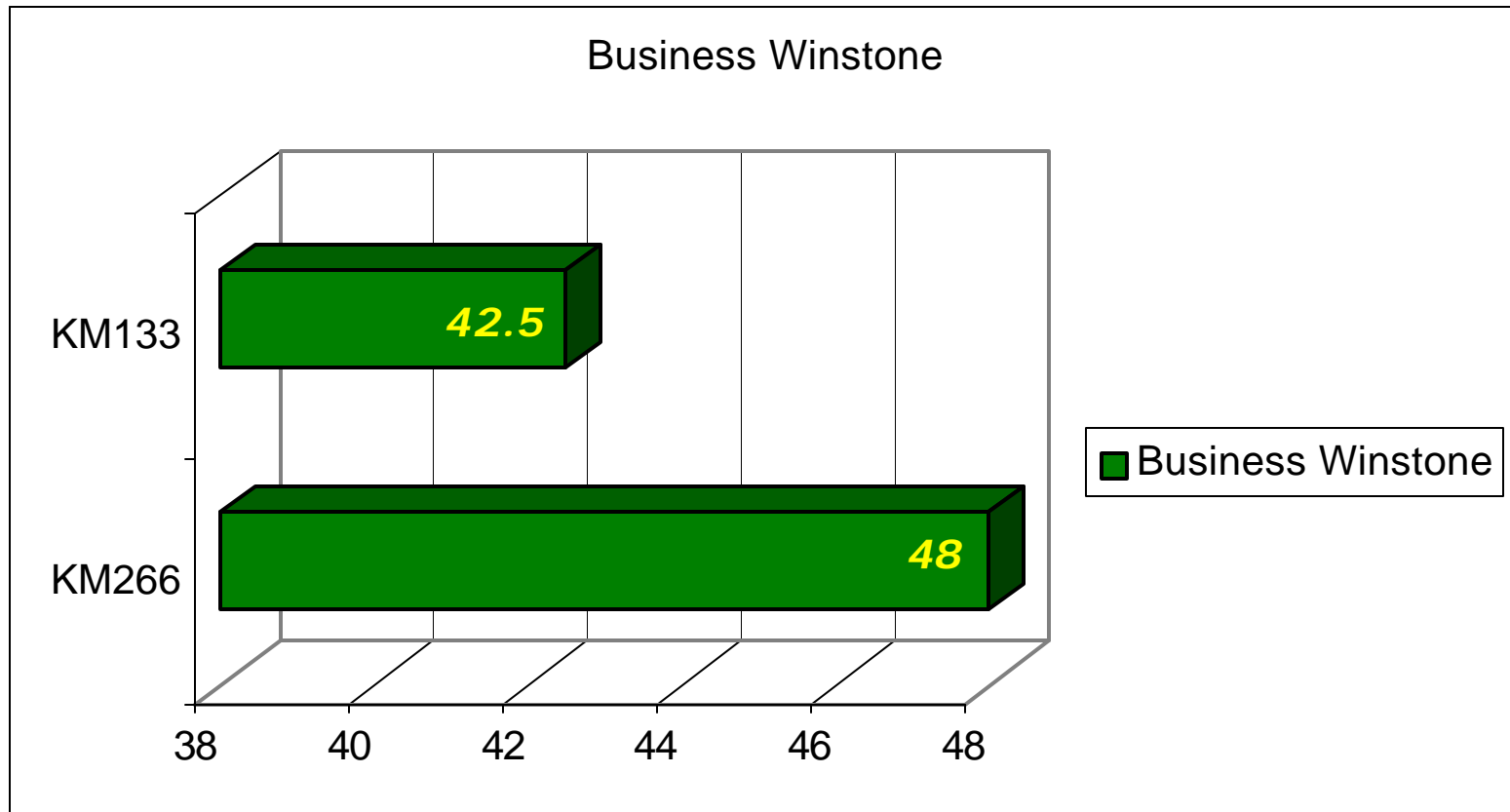
- Super-fast 78.5 in Content Creation Winstone 2001, 26% improvement over VIA ProSavage KM133 under same configuration
- 13% improvement in Business Winstone 2001 performance

## Stunning Improvement in 3D Performance

- 70% increase in 3D Mark 2000
- 53% increase in Quake III



# Business Winstone 2001

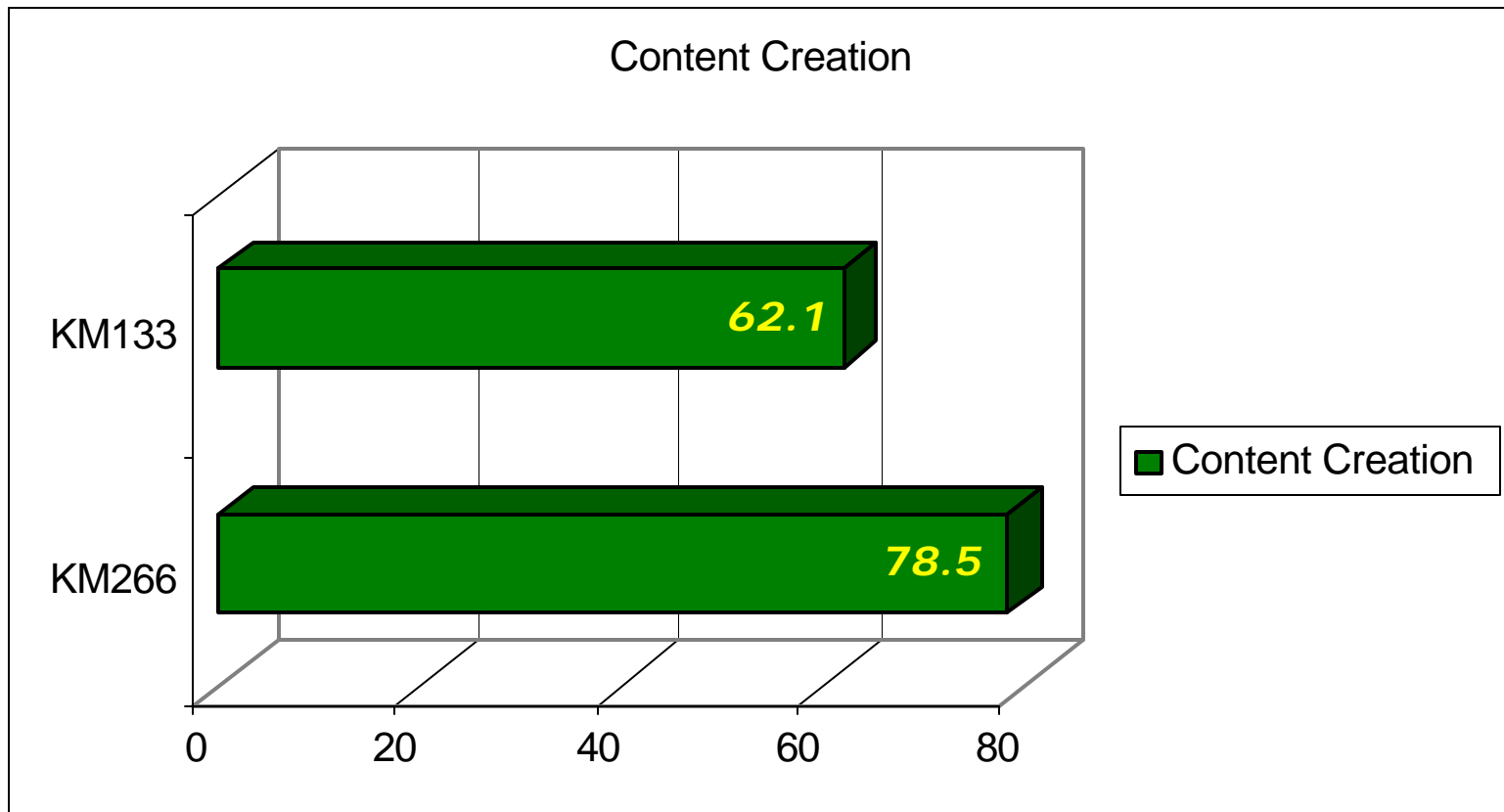


VIA ProSavageDDR KM266 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional

VIA ProSavage KM133 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional



# Content Creation Winstone 2001

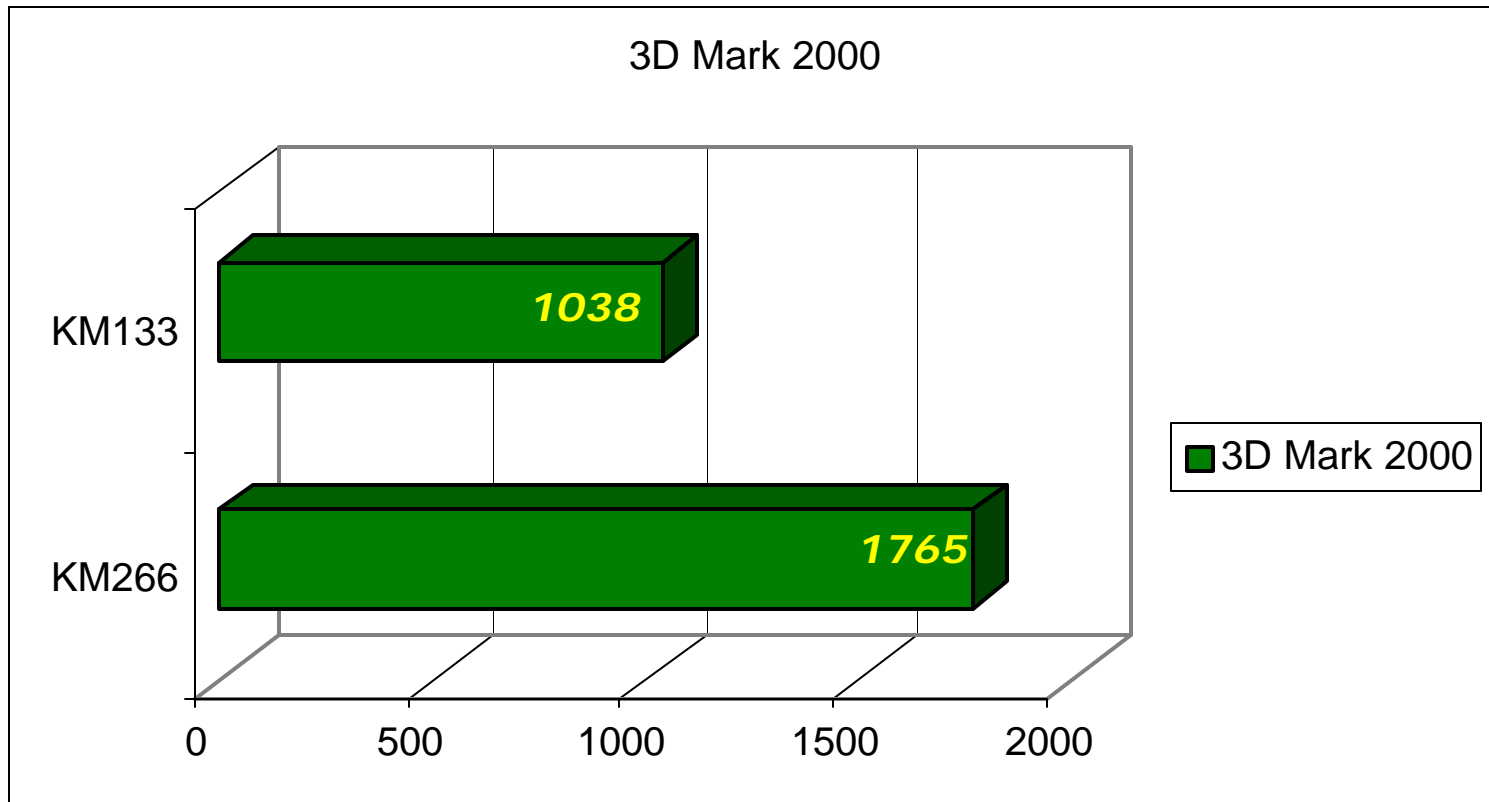


VIA ProSavageDDR KM266 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional

VIA ProSavage KM133 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional



# 3D Mark 2000

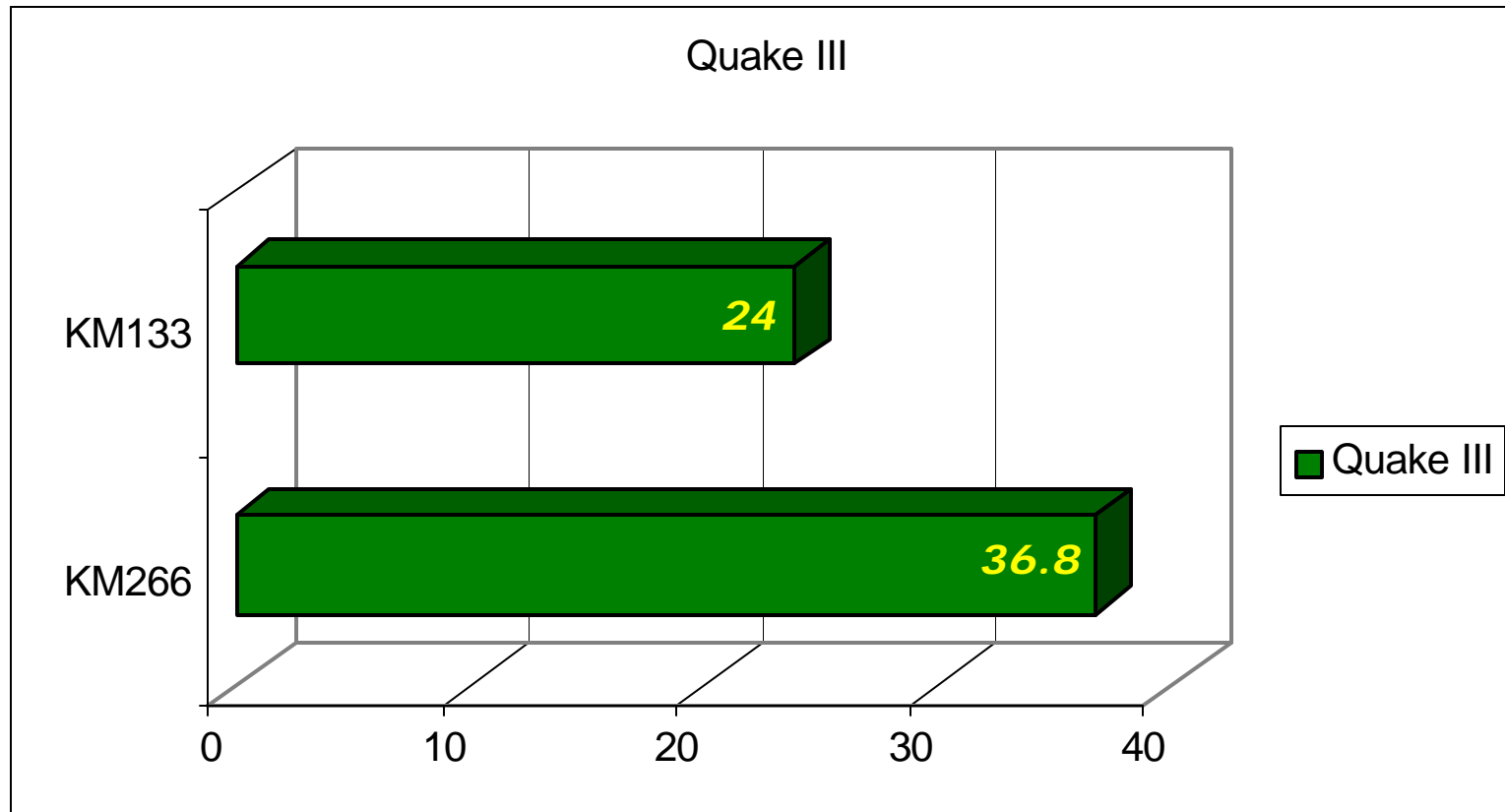


VIA ProSavageDDR KM266 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional

VIA ProSavage KM133 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional



# Quake III Game Test



VIA ProSavageDDR KM266 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional

VIA ProSavage KM133 Reference board, AMD Athlon XP 2000, 256MB Micron PC2100, IBM HDD 40GB, Windows XP Professional



# Base System Retail Price Comparison

## KM266 - A Compelling Value Proposition

	VIA ProSavageDDR KM266	Intel 845D
<b>CPU</b>	AMD Athlon XP 1600 \$116	Intel Pentium 4 1.6GHz \$152
<b>Motherboard</b>	Estimated \$120	D845BGL \$169
<b>Memory</b>	256MB PC2100 DDR SDRAM \$79.99	256MB PC2100 DDR SDRAM \$79.99
<b>Graphics Card</b>	None: Integrated ProSavage8	GeForce 2 GTS \$92
<b>Total</b>	<b>\$315.99</b>	<b>\$492.99</b>



All Prices from pricewatch.com except memory (crucial.com) 02/01/2002 |

# VIA Modular Architecture Platform (V-MAP)

## V-MAP

- Multiple Pin-to-Pin Compatible South Bridge options
- High Speed Memory Controller From VIA Apollo KT266A
- ProSavage8™ proven SMA stability and mature driver set

## V-MAP Delivers:

- Faster time to market
- Multiple system configurations on the same platform
- Lower product development, validation, and production costs



# VIA ProSavageDDR KM266 – Performance, Value & Flexibility

## **Strong Performance and Unmatched Value**

- DDR Memory maximizes the performance of the processor and the integrated graphics without a cost penalty.

## **Rich Integrated Graphics With A Comprehensive Driver Set**

- S3 Graphics ProSavage8™ delivers competitive 2D/3D performance in the most cost effective form, with a mature, comprehensive driver set.

## **V-MAP Architecture Reduces Time to Market**

- Lower Product Development, Validation, and Production costs
- Choice of the latest South Bridge platforms

