



VIA ProSavageDDR **PN266T** (Twister T DDR) Chipset Introduction

VIA ProSavageDDR PN266T

- Driving the Intel® Pentium® III Processor-M and mobile VIA C3™ to a whole new level of performance
- DDR266 SDRAM Memory – Smashing the PC133 performance ceiling in mobile systems
- S3 Graphics ProSavage8™ 128-bit 2D/3D Graphics core – Rich graphics, smooth DVD playback and a comprehensive driver set
- Supports Intel Speedstep™ and VIA LongHaul™ power management technology for extended battery life

PN266T



VIA ProSavage Mobile Chipsets: Building on a record of success

**VIA
ProSavage
PN133
(Twister)
& PN133T
(Twister T)**

CHEM USA
The Notebook Company

SEANIX



AMAX

WinBook

E⁺POWER[®]

ASUS[®]

SONY

Gateway

SUNREX

FUJITSU

**VIA
ProSavage
KN133
(Twister K)**

COMPAQ



DDR SDRAM For Mobile Systems



- **High Performance**

- Doubles Memory Bandwidth and Minimizes Latency yielding higher performance in every type of application
- Exploits the power of new generation mobile processors including the Intel® Pentium® III Processor-M and VIA C3™
- Takes Mobile System Performance to professional desktop level

- **Lower Power Consumption**

- DDR SDRAM runs at 2.5V as opposed to 3.3V for PC133 SDRAM
- Reduces Memory Subsystem Power Consumption by 30%
- Extends system battery life

Integrated Graphics For Mobile Systems

S3 Graphics Performance



- Industry leading ProSavage8™ technology with DDR memory bandwidth, boosts integrated graphics performance by 100%, for discrete graphics equivalent quality

Reduces Cost

- No discrete graphics required

Saves Real Estate on the Mainboard

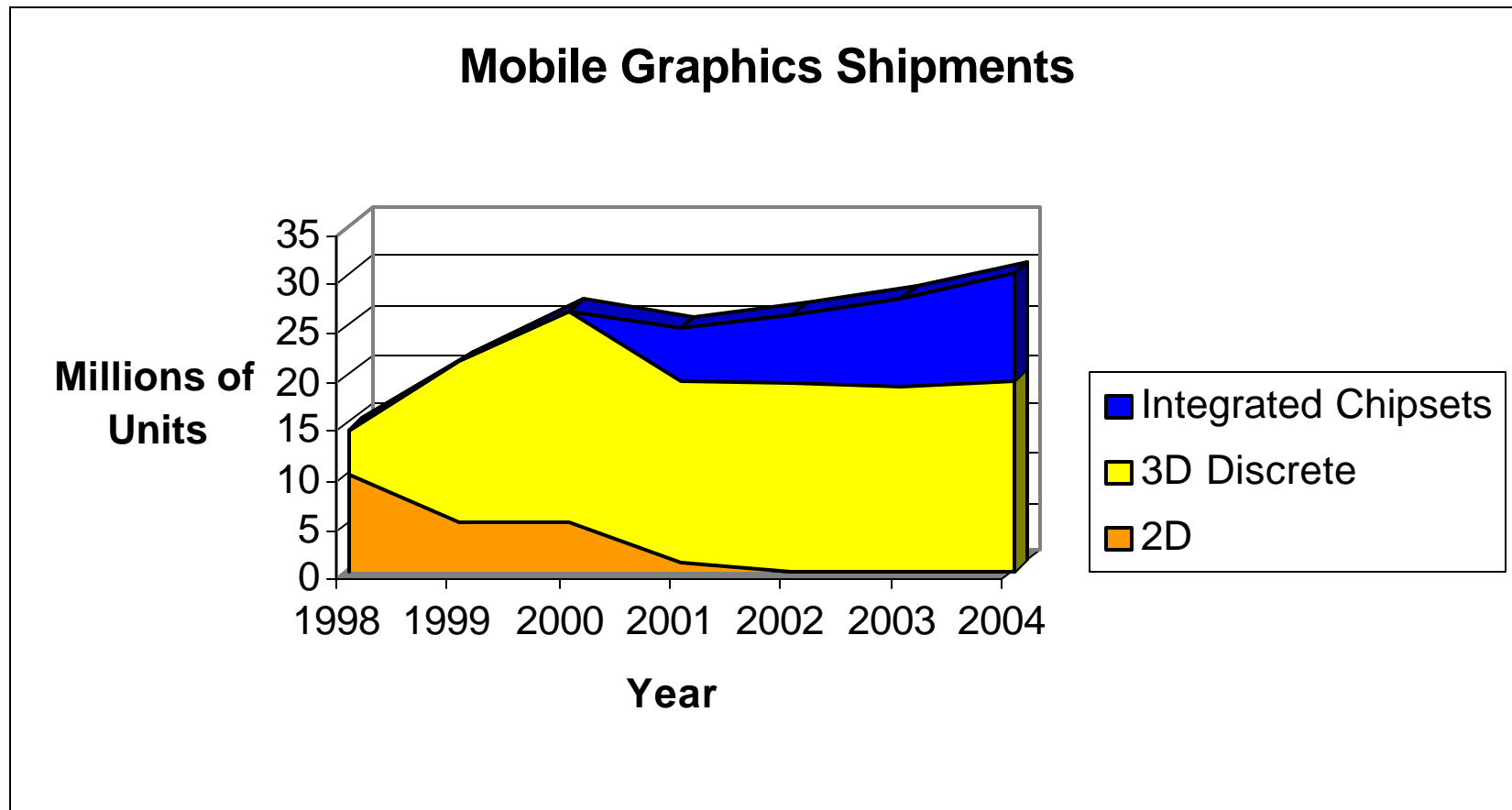
- Enables high performance mobile systems in thinner, lighter form factors than ever before

Reduces Power Consumption

- Lower transistor count and elimination of dedicated frame buffer lowers system power consumption



Integrated Mobile Solutions - Set For Explosive Growth



Source: Jon Peddie Research

VIA: Leadership in Integrated Desktop Chipsets with solutions for every segment

AMD Athlon™ XP AMD Duron™	VIA ProSavageDDR KM266 – Professional Desktop Systems VIA ProSavage KM133 – Value Desktop Systems KM266
Intel® Pentium® 4	VIA ProSavageDDR P4M266 – Professional Desktop Systems P4M266
Intel® Pentium® III, Intel® Celeron™, VIA C3™	VIA ProSavageDDR PM266 – Professional Desktop Systems VIA ProSavage PM133 – Value Desktop Systems



VIA: Leadership in Mobile Integrated Graphics Chipsets

AMD Athlon™ 4 and AMD Duron™ mobile processor platforms.

New VIA ProSavageDDR KN266

Performance/Professional Notebooks

KN266

VIA ProSavage KN133

(Codename: Twister K)

Mainstream/Value Notebooks

Intel® Pentium® III-M, Intel® Celeron™ and VIA C3™ mobile processor platforms

New VIA ProSavageDDR PN266T

Performance/Professional Notebooks

PN266T

VIA ProSavage PN133T

(Codename Twister T)

VIA ProSavage PN133

(Codename: Twister)

Mainstream/Value Notebooks



Enhanced ProSavage8 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.

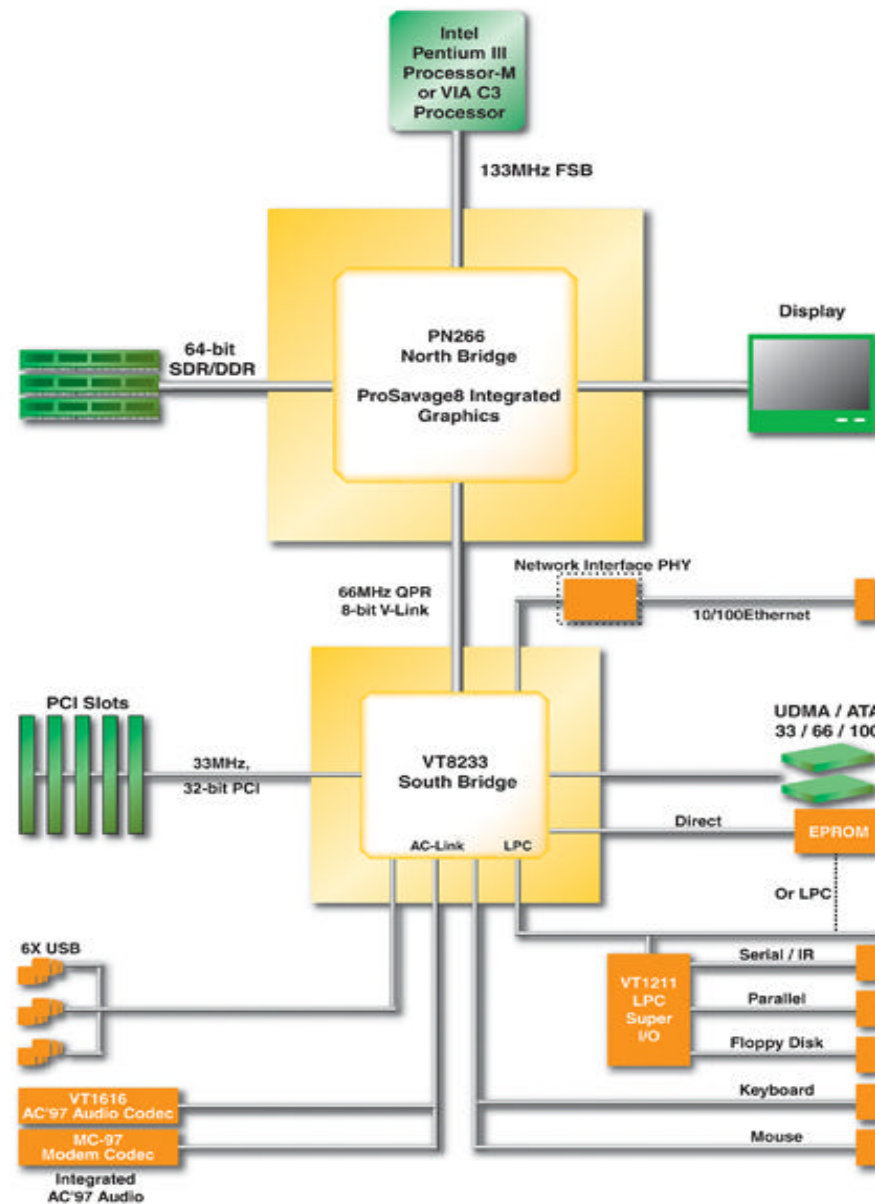
- 128-bit internal data paths
- Effective AGP 8X internal bandwidth
- 2.1GB/s transfer rate
- 8M triangles/s
- 32-bit Rendering, Bump Mapping,
- S3TC Texture Compression
- DSTN and LVDS LCD Support
- 8KByte Texture Cache
- DVD Motion Compensation 30fps
- AGP 4X Sideband Addressing



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

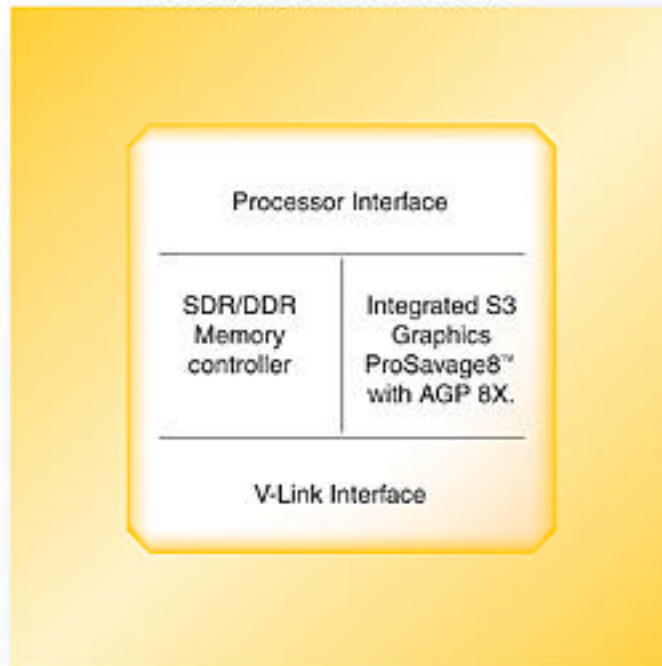


VIA ProSavageDDR PN266T



VIA ProSavageDDR PN266T North Bridge

PN266 North Bridge Architecture



Leading Edge Performance Features

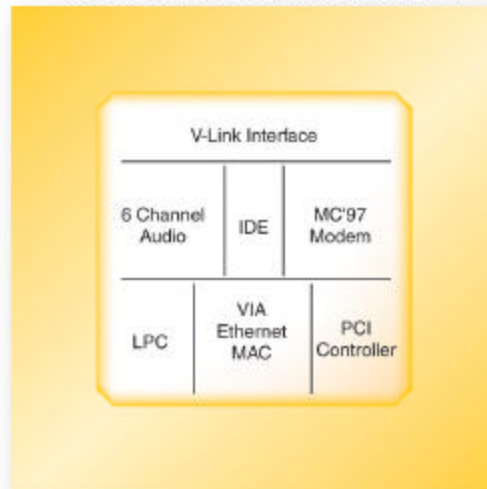
- 133MHz Front Side Bus
- Integrated S3 Graphics ProSavage8™ Graphics Core with internal AGP 8X equivalent bandwidth, 32MB Frame Buffer and DVD Motion Compensation
- Support for up to 4GB High-Speed DDR200/266 SDRAM: Peak data transfer rate of 2.1GB/sec
- High Speed V-Link Architecture: Peak bandwidth of 266MB/s

Unmatched Flexibility & Scalability

- Supports full range of mobile Intel processors including Intel® Pentium® III Processor-M
- DDR266 SDRAM or PC133 SDRAM Memory

V-MAP South Bridge Options

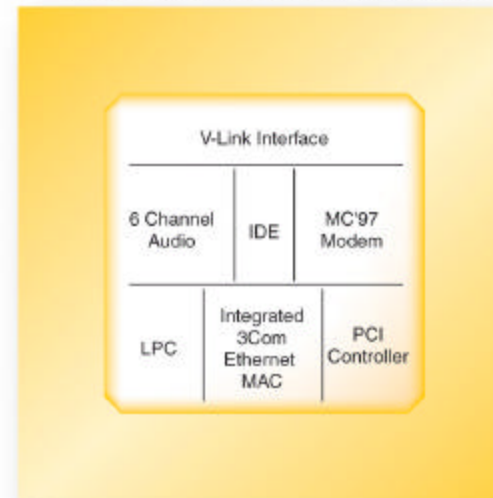
VT8233 South Bridge Architecture



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

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



Feature	PN266T	Intel 830MG
North Bridge	VT8613	82830 GMCH-M
Processor Support	Intel® Pentium® III-M Intel® Celeron™ VIA C3™	Intel® Pentium® III-M Intel® Celeron™ VIA C3™
Front Side Bus	100/133MHz	100/133MHz
Memory Bus Settings	100/133/200/266MHz	100/133MHz
AGP Support	AGP 4X (Effective Internal bandwidth AGP 8X)	AGP 4X
Memory Type	DDR200/266 SDRAM PC100/133 SDRAM	PC100/133 SDRAM
Max. Memory	4.0GB	1.0GB
Integrated Graphics	S3 Graphics ProSavage8™	Intel® 82830M Graphics Controller
South Bridge	VT8233, VT8233C	82801BA ICH3-M
North/South Bridge Link	VIA V-Link@ 266MB/s	Intel Hub Architecture @ 266MB/s
ACR Support	Yes	No
Integrated Audio	AC'97 6 Channel	AC'97 2.1 Compliant
Integrated Modem	MC'97	MC'97
Integrated Network Controller	VIA or 3Com Ethernet MAC -10/100 Fast Ethernet	Intel Ethernet MAC -10/100 Fast Ethernet
PCI Devices/Slots	5 PCI	5 PCI
IDE	ATA 33/66/100 ATA 133 with VT8233A South Bridge	ATA 33/66/100
USB	6 Ports	6 Ports
Super I/O	LPC Super I/O	LPC Super I/O
IO APIC	Yes	Yes
Power Management	ACPI/APM/PCI/PM	ACPI/APM/PCI/PM



VIA ProSavageDDR PN266T Performance Highlights

15% More Performance in
Business Winstone 2001

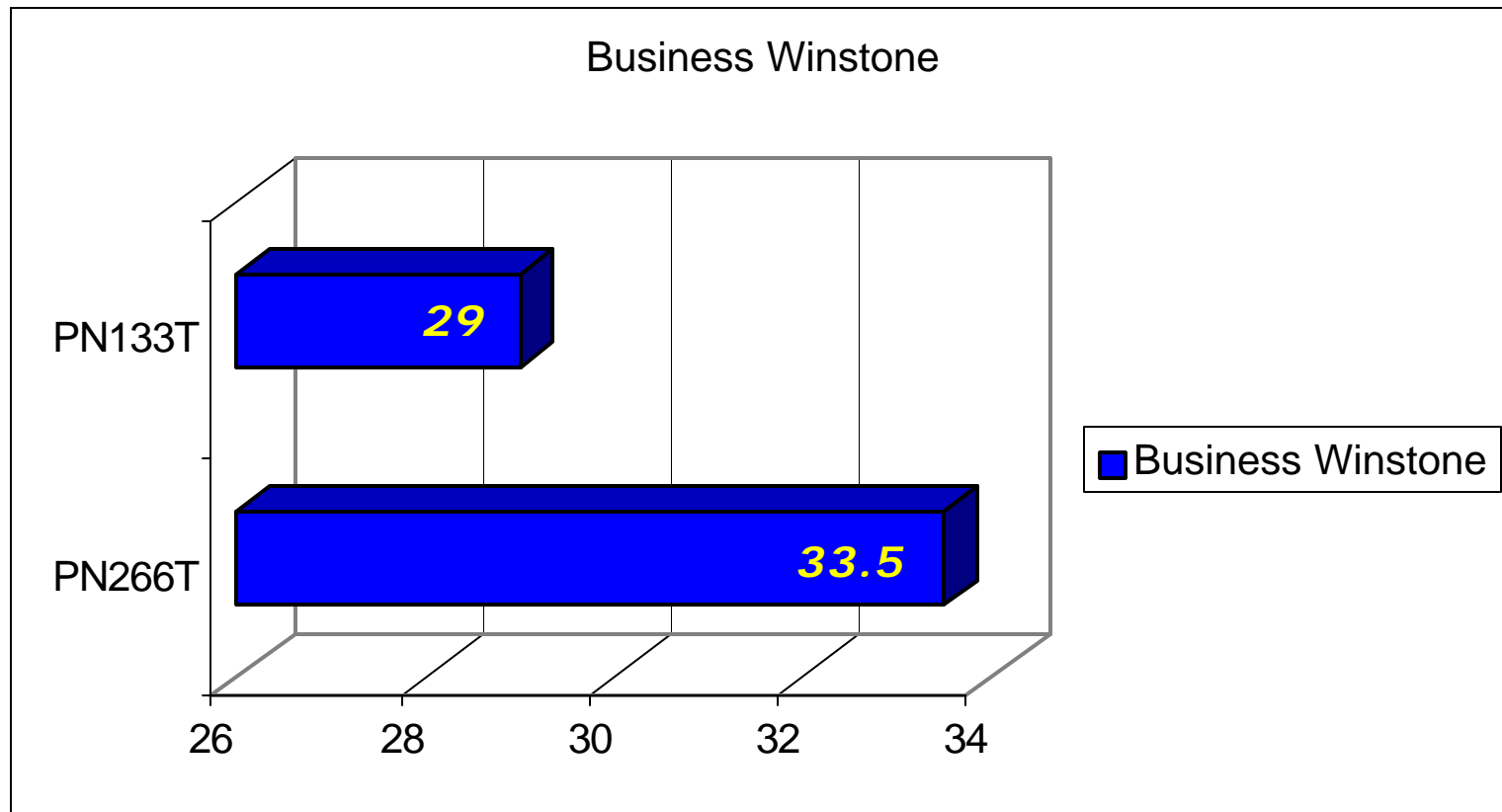
25.1% More Performance in
Content Creation Winstone 2001

66.3% More Performance in Quake
III

52.6% More Performance in 3D
Winmark 2000



Business Winstone 2001

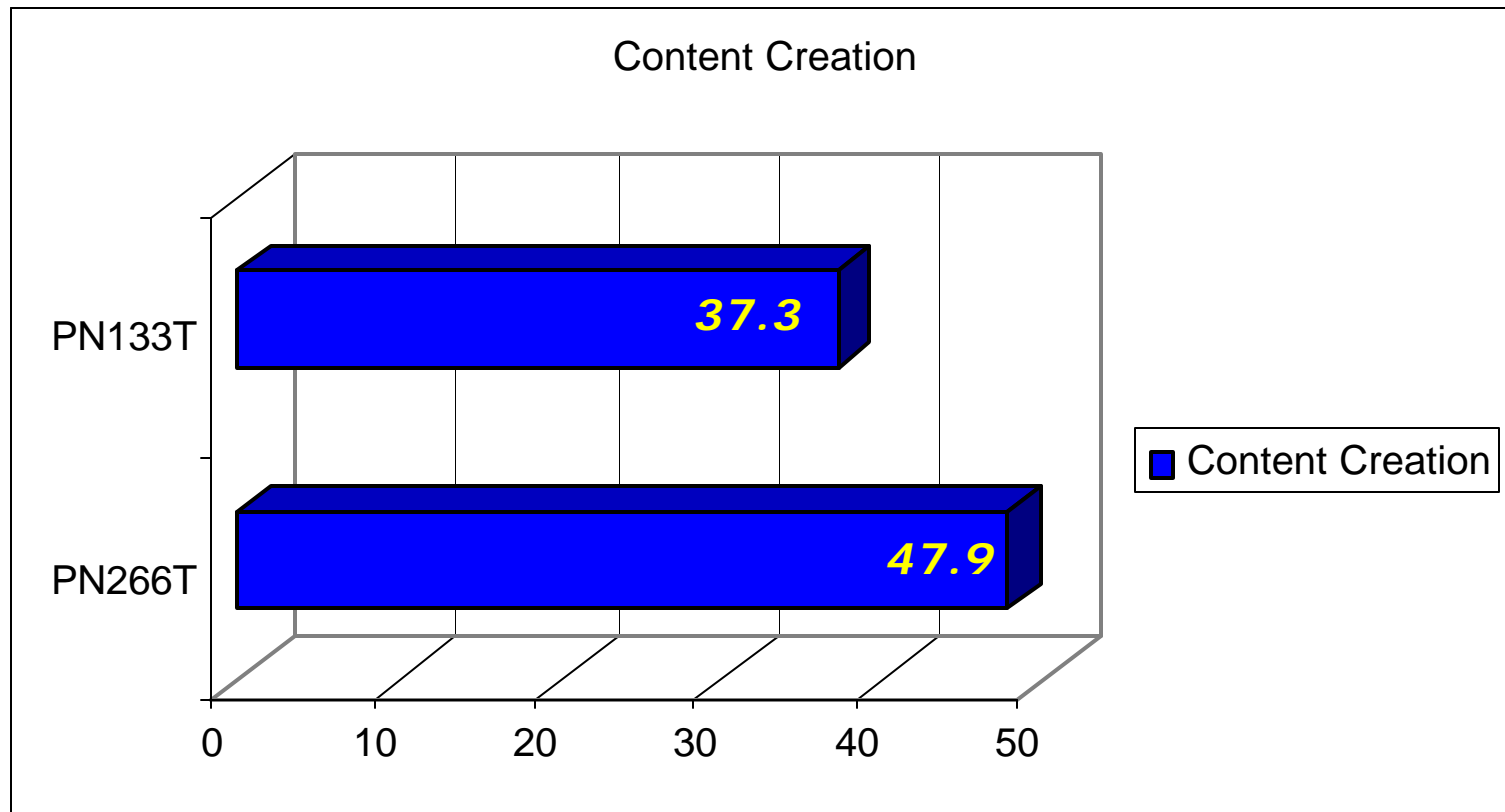


PN266T: VIA PN266T Reference Board, Intel Pentium III Processor-M 1GHz, 256MB Micron PC2100 Memory, Integrated ProSavage4 Graphics, IBM 40GB HDD, MS Windows® XP Professional

PN133T: VIA PN133T Reference Board, Intel Pentium III Processor-M 1GHz, 256MB Apacer PC133 Memory, Integrated ProSavage4 Graphics, IBM 40GB HDD, MS Windows® XP Professional



Content Creation Winstone 2001

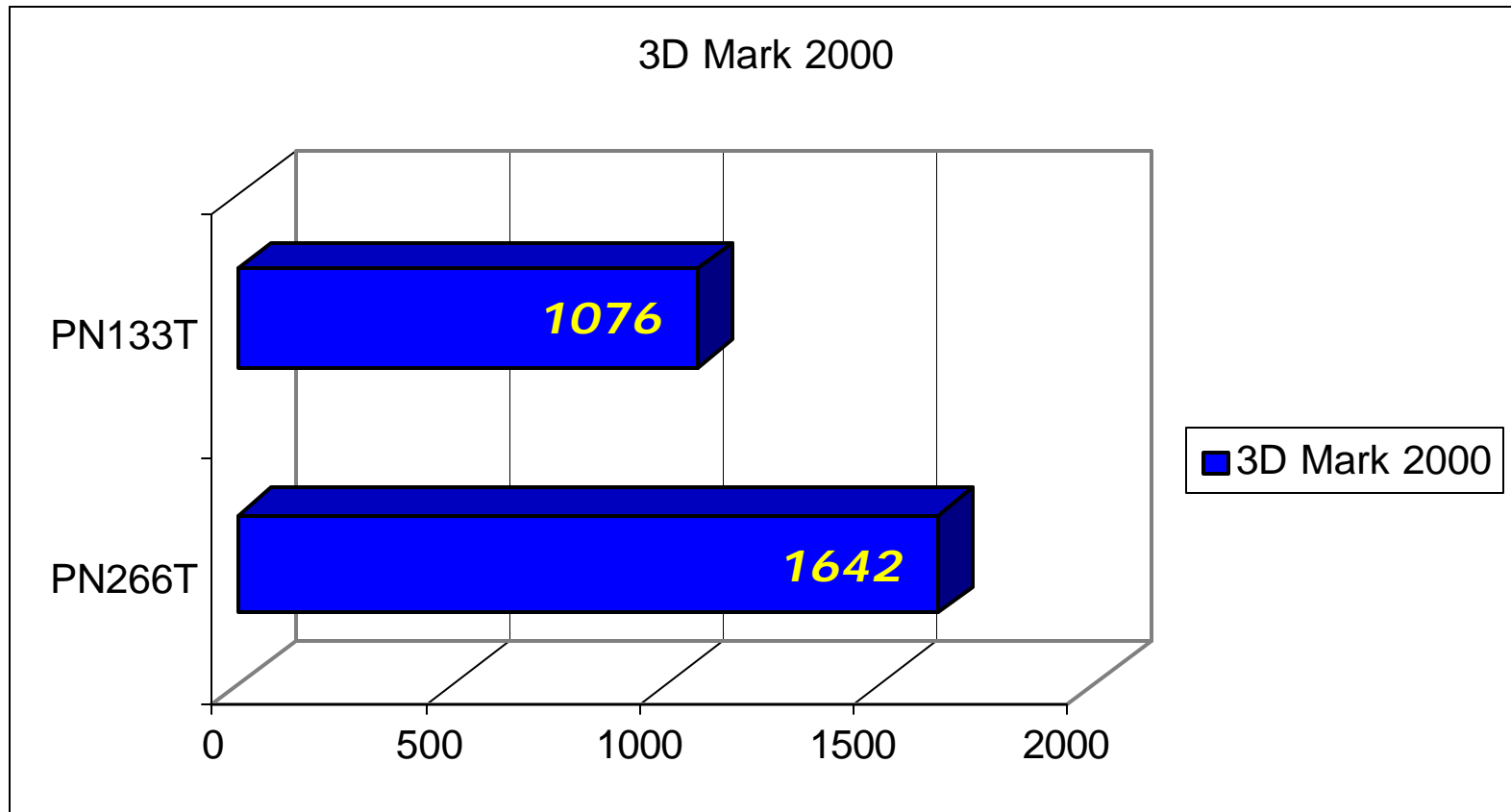


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3D Mark 2000

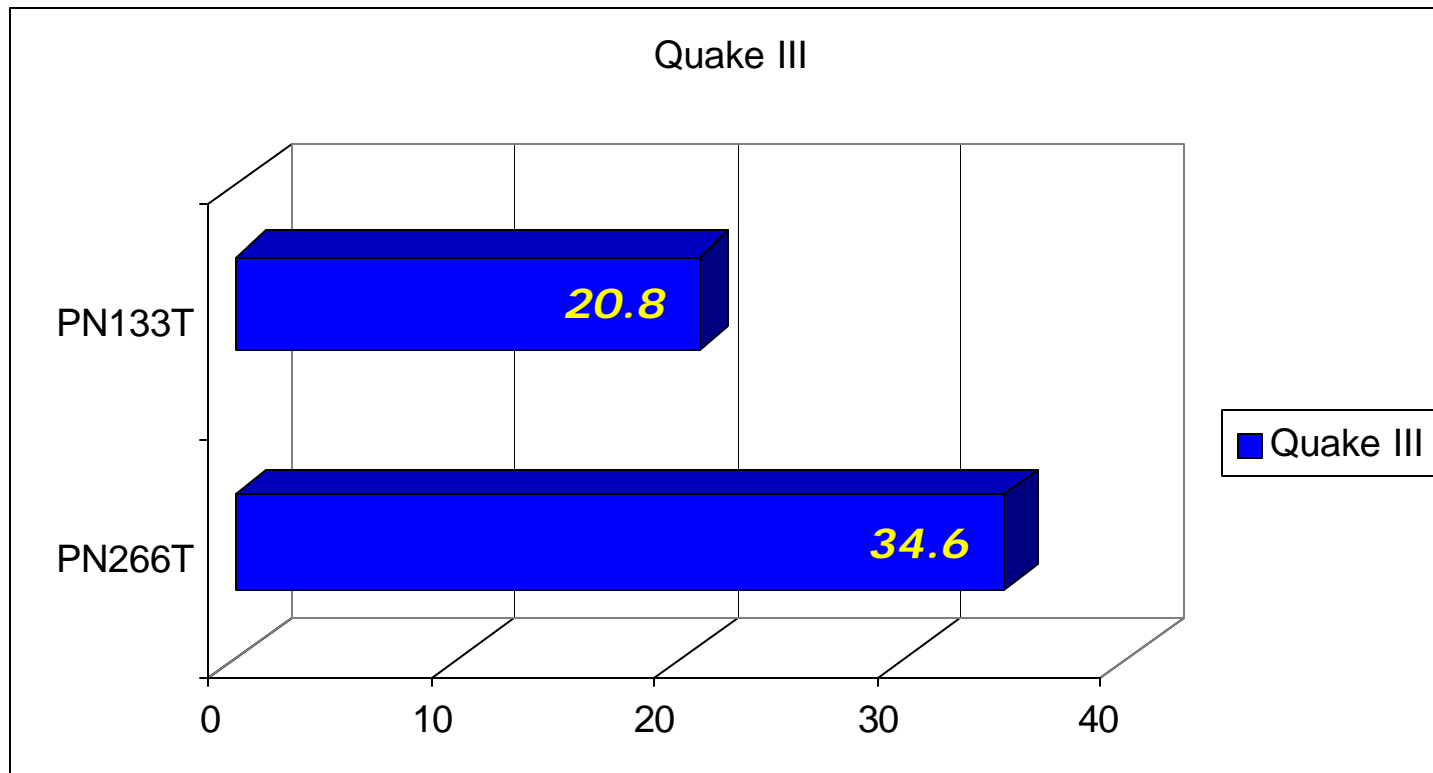


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Quake III



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PN133T: VIA PN133T Reference Board, Intel Pentium III Processor-M 1GHz, 256MB Apacer PC133 Memory, Integrated ProSavage4 Graphics, IBM 40GB HDD, MS Windows® XP Professional

VIA ProSavageDDR PN266T: Empower Your Mobile with DDR

- First Mobile Chipset for the Intel® Pentium® III Processor-M with DDR266 SDRAM memory support
- Market Leading Performance
- Market Leading Power Consumption
- Market Leading Communication and Networking Options
- Flexibility for OEMs and System Integrators
- Rich Integrated Graphics With A Comprehensive Driver Set



PN266T