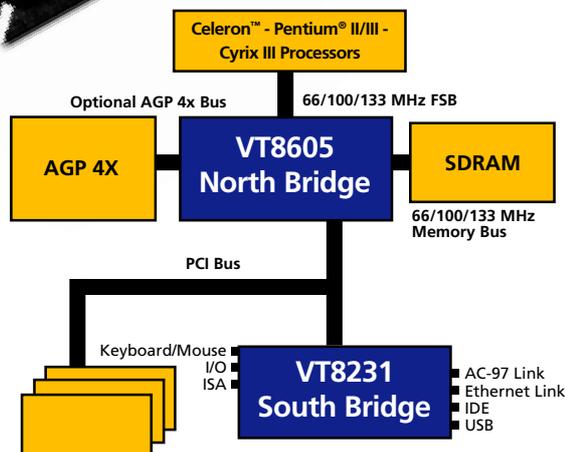# APOLLO PM133

Combining advanced PC133, 133MHz FSB and ATA-66 technologies with the rich 2D/3D graphics capabilities of the S3 Savage4 AGP 4X core, the VIA Apollo PM133 sets the new PC industry standard for performance, scalability, and value in an integrated chipset solution.

VT8605

VT8231

The VIA Apollo PM133 couples the vibrant graphics capabilities of the S3 Savage4 AGP 4X core with the proven leading-edge performance of the VIA Apollo Pro133A chipset to provide the most powerful and feature-rich integrated chipset available on the market - while maintaining complete flexibility with its support for such innovative features as an optional AGP 4X port interface. This flexibility combined with 66/100/133 MHz front-side bus settings optimized for Intel® Celeron™, Pentium® III and VIA Cyrix® III processors enables motherboard and system manufacturers to design one motherboard to encompass all Value and Mainstream market segments. Support for PC133 as well as PC66/100 SDRAM and Virtual Channel memory further enhances system scalability and performance. Embracing VIA's continuous commitment to integration and delivery of more performance at lower costs, the VIA Apollo PM133 also features a 10/100 BaseT Ethernet controller or home Network, AC-97 audio, MC-97 modem, Super I/O and hardware monitoring capabilities. Additional key features include support for 4 USB ports, ATA-100 and advanced power management.

Celeron™ - Pentium® II/III - Cyrix III Processors

Optional AGP 4x Bus

66/100/133 MHz FSB

AGP 4X

VT8605 North Bridge

SDRAM

66/100/133 MHz Memory Bus

PCI Bus

Keyboard/Mouse
I/O
ISA

VT8231 South Bridge

AC-97 Link
Ethernet Link
IDE
USB

Integrated North Bridge Architecture

Processor Interface		
2D/3D GUI DVD Video Compensator	PC Interface Controller	DRAM Controller

Integrated South Bridge Architecture

IDE	PC Interface Controller	AC-97 Audio/Modem	
Super I/O	CPU Monitoring	Ethernet Controller	PM
KBC	RTC		SMB

APOLLO PM133

FEATURE COMPARISON

Chipset	VIA Apollo PM133	VIA Apollo ProMedia	Intel 815	Intel 810
North Bridge	VT8605	VT8601	TBD	82810
Processor Support	Intel Celeron™ Intel Pentium® II/III VIA Cyrix®III	Intel Celeron™ Intel Pentium® II/III VIA Cyrix® III	Intel Celeron™ Intel Pentium® II/III	Intel Celeron™ Intel Pentium® II/III
Front-Side Bus Settings	66/100/133 MHz	66/100/133 MHz	66/100/133 MHz	66/100 MHz
Integrated 2D/3D	S3 Savage 4/AGP 4X	Trident Blade 3D/AGP 2X	i752/AGP 2X	i752/AGP 2X
Optional External AGP 4x	Y	N	Y	N
Memory Bus Settings	66/100/133 MHz	66/100/133 MHz	66/100/133 MHz	66/100 MHz
Max. Memory	1.5GB	1.5GB	512MB	512MB
Memory Type	PC66/100/133 SDRAM VC SDRAM	PC66/100/133 SDRAM VC SDRAM	PC66/100/133 SDRAM	PC66/100 SDRAM
South Bridge	VT8231	VT8231	82801AA	82801AA
Integrated Audio/Modem	AC-97/MC-97	AC-97/MC-97	AC-97/MC-97	AC-97/MC-97
Integrated Network Controller	1/10/100 BaseT Ethernet	1/10/100 BaseT Ethernet	N	N
Integrated IO/APIC	Y/Y	Y/Y	Y/N	Y/N
IDE	ATA 33/66/100	ATA 33/66/100	ATA 33/66	ATA 33/66
USB	4 ports	4 ports	2 ports	2 ports
Power Management	ACPI/OnNow PMM	ACPI/OnNow PMM	ACPI/OnNow PMM	ACPI/OnNow PMM

Apollo PM133 Benefits

One common motherboard design
The VIA Apollo PM133's highly scalable feature set allows system manufacturers to design one motherboard to encompass all Value and Mainstream market segments, thus reducing R&D and manufacturing expenses as well as speeding product time-to-market.

Flexible front-side bus settings optimized for both value and mainstream processors
The VIA Apollo PM133's 66/100/133 MHz front-side bus is optimized for a full range of Intel® Celeron™, Intel® Pentium® II/III, and VIA Cyrix® III processors, allowing OEMs and system builders to choose the processor that best fits their target price point.

Latest generation integrated graphics with upgrade option
With an integrated S3 Savage4 graphics core and optional AGP 4X interface for future high performance AGP card upgrades, the VIA Apollo PM133 sets a new benchmark for integrated chipset 2D/3D performance and flexibility.

High-speed PC133 performance at minimal extra cost
PC133 offers the bandwidth necessary to squeeze the peak performance out of the latest generation processors and AGP 4X graphics. PC133's 33% extra bandwidth comes with little or no price premium over PC100.

All trade names used herein are the property of their respective owners

FEATURES

- Supports Intel® Celeron™, Pentium® II/III, and VIA Cyrix® III processors

- 66/100/133 MHz FSB settings

- Integrated S3 Savage4 AGP 4X graphics core

- External AGP 4X expansion interface for optional graphics card upgrades

- Support for PC133 SDRAM as well as PC66/100 SDRAM and Virtual Channel memory

- Integrated AC-97, MC-97 Audio/Modem

- Integrated 10/100Mb BaseT Ethernet controller or 1/10Mb Home PNA

- Integrated Super I/O and IOAPIC

- Support for ATA 33/66/100

- Support for CRT, LCD or TV display

- 4 USB ports, UHCI compliant

- Integrated hardware monitoring

- Advanced mobile power management features

- 552 BGA VT8605 North Bridge

- 352 BGA VT8231 South Bridge

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