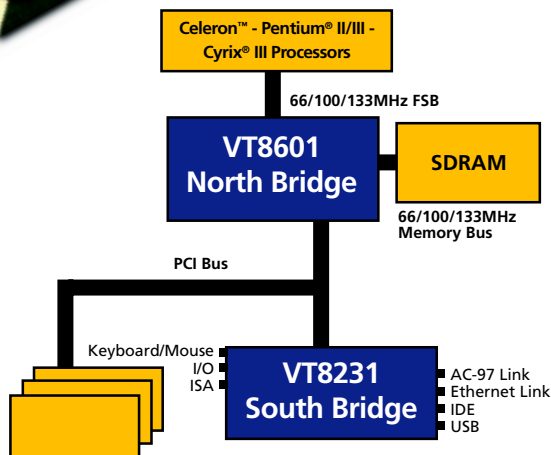# APOLLO PM601

With its rich built-in AGP 2X graphics capabilities, flexible 66/100/133 MHz system bus settings, and support for PC100/133 SDRAM, the VIA Apollo PM601 chipset delivers new levels of scalability and performance on a cost-effective, integrated chipset platform designed for the specific needs of the Value PC and Internet Appliance market segments.

The VIA Apollo PM601 pairs the rich AGP graphics capabilities of the Trident Blade3D graphics engine with such advanced features as 133MHz Front Side Bus and 133MHz SDRAM support to deliver unrivaled flexibility and performance in an affordable yet highly-integrated chipset. With its flexible 66/100/133MHz FSB settings, the VIA Apollo PM601 is designed to optimize the performance of a full range of Intel® Pentium® III, Intel® Celeron™, and VIA Cyrix® III processors. Its support for PC133 SDRAM ensures ample memory bandwidth for the most demanding software and Internet applications at minimal additional cost. A wide range of additional integrated features provide OEMs and System Assemblers further flexibility for reducing the cost of building innovative Value PCs and Internet Appliances without sacrificing features and performance. These include an integrated 10/100 BaseT Ethernet controller, AC-97 audio, MC-97 modem, Super I/O, hardware monitoring capabilities, and support for four USB ports, ATA-100, and advanced power management.

VT8601

VT8231

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

66/100/133MHz FSB

VT8601 North Bridge

SDRAM

66/100/133MHz 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

VIA
We Connect

VIA MULTIMEDIA CHIPSET

APOLLO PM601

FEATURE COMPARISON

Features	VIA Apollo PM601	Intel 810E	Intel 810
North Bridge	VT8601	82810E	82810
Processor Support	Intel Celeron™ Pentium® II/III VIA Cyrix® III	Intel Celeron™ Pentium® II/III	Intel Celeron™ Pentium® II/III
Front Side Bus Settings	66/100/133MHz	66/100/133MHz	66/100MHz
Integrated 2D/3D	Trident Blade3D - AGP 2X	i752 - AGP 2X	i752 - AGP 2X
Memory Bus Setting	66/100/133MHz	66/100MHz	66/100MHz
Max. Memory	1.5GB	512MB	512MB
Memory Type	PC66/100/133 SDRAM VC SDRAM	PC66/100 SDRAM	PC66/100 SDRAM
South Bridge	VT8231	82801AA	82801AA
Integrated Audio/Modem	AC-97/MC-97	AC-97/MC-97	AC-97/MC-97
Integrated Network controller	10/100 Base-T Ethernet	N	N
Integrated IO / IOAPIC	Y/Y	N/Y	N/Y
IDE	ATA 33/66/100	ATA 33/66	ATA 33/66
USB	4 ports	2 ports	2 ports
Integrated Hardware Monitoring	Y	N	N
Power Management	ACPI/OnNow PMM	ACPI/OnNow PMM	ACPI/OnNow PMM

BENEFITS OF APOLLO PM601

Extremely cost effective platform
The VIA Apollo PM601's highly integrated design enables OEMs and system builders to offer extremely cost effective PCs by eliminating numerous previously discrete PC components.

Flexible Front Side Bus settings optimized for both value and mainstream processors
The VIA Apollo PM601's 66/100/133MHz Front Side Bus is optimized for a full range of Intel® Celeron™, Intel® Pentium® III, and VIA Cyrix® III processors, allowing OEMs and system builders to choose the processor that best fits their target price point.

Rich AGP graphics capabilities at minimal extra cost
Trident's compact, cost competitive Blade3D AGP engine was designed specifically for integrated chipsets to provide a rich graphical experience when surfing the web or running your favorite software applications.

High-speed PC133 performance at minimal extra cost
PC133's 33% extra bandwidth comes with little or no price premium over PC100.

FEATURES

- Supports Intel® Celeron™, Pentium® III, and VIA Cyrix® III processors
- 66/100/133MHz FSB settings
- Integrated Trident Blade3D AGP 2X graphics core
- Support for PC133 SDRAM as well as PC66/100 SDRAM and Virtual Channel memory
- Integrated AC-97, MC-97 Audio/Modem
- Integrated 10/100 Base-T Ethernet controller
- 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
- 510 BGA VT8601 North Bridge
- 352 BGA VT8231 South Bridge

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