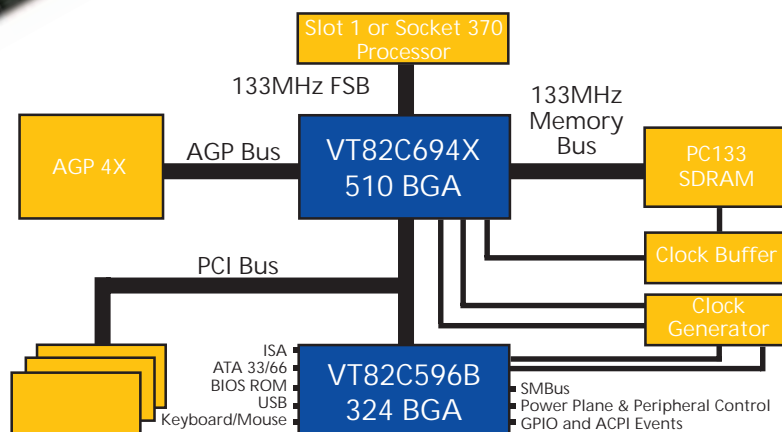# APOLLO PRO133A

The VIA Apollo Pro133A delivers advanced performance through support for AGP 4X, 133MHz FSB, PC133 SDRAM, ATA-66 and other leading technologies.

VT82C694X Northbridge

VT82C596B Southbridge

The Apollo Pro133A builds on the success of the Apollo Pro133, the industry's first available PC133 chipset. The Apollo Pro133A adds even more high-end features while still maintaining its scalability and superior value. It is the first chipset to market with support for AGP 4X, the latest advanced graphics protocol. A 133MHz-capable front-side bus optimizes the performance of Intel's 133MHz Pentium® III and other next-generation processors. A highly scalable asynchronous bus design also makes the Apollo Pro133A suitable for Pentium® II and Celeron™-based systems. Through its advanced memory controller architecture, the Apollo Pro133A supports PC133 and VC/133 DRAMs, the latest high-performance and cost-effective memory types. Support for ATA-66, the latest fast-IDE transfer protocol, advances HDD access and data throughput and boosts overall system performance. Additional features include 2 USB ports and advanced power management.

APOLLO PRO133A BLOCK DIAGRAM

APOLLO PRO133A

FEATURE COMPARISON

Chipset	VIA Apollo Pro133A	VIA Apollo Pro Plus	Intel 440BX	Intel 440ZX
North Bridge	VT82C694X	VT82C693	82443BX	82443ZX
CPU Front-side-bus	66/100/133MHz	66/100MHz	66/100MHz	66/100MHz
Memory Bus Settings	66/100/133MHz	66/100MHz	66/100MHz	66/100MHz
Max. Memory	2.0GB	1GB	1GB	256MB
Memory Type	PC66/100/133 SDRAM	PC66/100 SDRAM	PC66/100 SDRAM	PC66/100 SDRAM
	VC SDRAM	VC SDRAM		
	EDO DRAM	EDO DRAM		
Asynchronous Setting	Y	Y	N	N
AGP 2X/4X	Y/Y	Y/N	Y/N	Y/N
South Bridge	VT82C596B	VT82C596B	PXII4	PXII4
ATA-66	Y	Y	N	N
Max. DIMMs	4	4	4	2
USB	2 ports	2 ports	2 ports	2 ports
ACPI/OnNow	Y	Y	Y	Y
ECC	Y	Y	Y	N
PCI Devices	5	5	5	4
KBC/RTC	Y/Y	Y/Y	N/Y	N/Y

Peak Chipset Bandwidth

VIA Pro133A chipset

Bus Type	Peak Bandwidth
P6 @ 133MHz	1.0GB
PC133 SDRAM	1.0GB
AGP 4X	1.0GB
PCI @ 33MHz	132MB
Total Bandwidth	3.13GB

Intel 440BX chipset

Bus Type	Peak Bandwidth
P6 @ 100MHz	800MB
PC100 SDRAM	800MB
AGP 2X	533MB
PCI @ 33MHz	132MB
Total Bandwidth	2.26GB

Peak Memory Bandwidth

Memory Type	Peak Bandwidth
PC100	800MB
PC133	1.0GB
DRDRAM @ 600MHz	1.2GB
PC200 (DDR)	1.6GB
DRDRAM @ 800MHz	1.6GB
PC266 (DDR)	2.1GB

FEATURES

- 66/100/133MHz front-side bus settings
- 66/100/133 memory bus settings
- Asynchronous FSB and memory bus enable highly scalable configurations
- Supports Intel's Pentium® III, Pentium® II, Celeron™ and upcoming Cyrix slot 1/socket 370 processors
- AGP 2X/4X
- ATA-33/66
- Supports PC133, PC100, VC SDRAM, and EDO DRAM types in mixed combinations up to a total of 2.0GB
- 2 USB ports, UHCI compliant
- Advanced mobile power management and clock stop features
- PC98/99 compliant
- 510 BGA VT82C694X North Bridge
- 324 BGA VT82C596B South Bridge

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