

APOLLO MVP4

The VIA Apollo MVP4 leads to market the next generation of multimedia PC chipsets for desktop and mobile systems. Integrating a number of key components, including graphics and audio, the Apollo MVP4 drives down overall system costs. While cost-effective, the VIA Apollo MVP4 cuts no corners on Super 7 performance or reliability.



The Apollo MVP4 rolls major system components into a two-chip set. Eliminating the need for a system graphics chip or card, the Apollo MVP4 features an integrated high performance 2D/3D AGP graphics engine and video accelerator with advanced DVD video and optional TV output capability. For audio and communication, the Apollo MVP4 integrates AC-97 Direct-Sound and host modem digital controller with WDM drivers as well as legacy SoundBlaster Pro, FM, MIDI and game port support. Additional key components moved off the board and into the chipset include Super I/O and hardware monitoring.

For fast and easy connection of joysticks, speakers, digital cameras and other outside-the-box components, the Apollo MVP4 supports four USB ports.

In terms of performance and reliability, the Apollo MVP4 builds on the

advanced features and capabilities of the Super 7 benchmark, the VIA Apollo MVP3. The Apollo MVP4 supports six banks, up to 768MB, of PC100/PC66 DRAM types including Virtual Channel SDRAM, PC100 SDRAM, EDO and FP. Pushing the envelope in Super 7 system performance, the Apollo MVP4 supports 2MB L2 cache with 100MHz read/write transactions. Mainboard purchasers looking for an economical upgrade benefit from the Apollo MVP4's pseudo-synchronous design which allows for 66/100MHz settings of the processor and memory busses.

This chipsets is an optimal choice for the latest generation of Super 7 mobile PC designs. It supports advanced PC99-compliant mobile-PC features which include suspend-to-RAM (STR), independent clock stops, and ACPI/OnNow.

The Apollo MVP4 is the most compelling Super 7 solution for cost-effective, full-feature multimedia desktop and mobile PCs.



APOLLO MVP4

FEATURE COMPARISON

Chipset	VIA Apollo MVP4	Intel 430TX	Intel 440BX	Intel Whitney*
CPU Interface	Socket 7	Socket 7	Slot 1	Socket 370
Integrated VGA/DVD	Y	N	N	Y
Integrated AC97 Audio	Y	N	N	Y
Integrated Hardware Monitoring	Y	N	N	N*
Integrated Super I/O	Y	N	N	N
FSB Settings	66/75/83/95/100MHz	66MHz	66/100MHz	66/100MHz
PC100 SDRAM	Y	N	Y	Y
VC SDRAM	Y	N	N	N
Max. DRAM	768MB	256MB	1GB	256MB
L2 Cache Support	2MB	512KB	N/A	N/A
UDMA33/66	Y/Y	Y/N	Y/N	Y/Y
AGP	Y	N	Y	Y
ECC	Y	N	Y	N
ACPI/OnNow	Y	Y	Y	Y
4 USB Ports	Y	N	N	N
KBC/RTC	Y/Y	N/Y	N/Y	N/Y

* Intel Whitney information sourced in industry.

High integration

Saves on system costs by moving into the PC chipset features traditionally found on add-on cards or on the mainboard

100MHz CPU / memory bus

Highest performance for Super 7 systems

PC98/PC99 compliant

Meets present and upcoming Microsoft PC architecture and usability standards

66/100MHz memory settings

Provides end-users a clear upgrade to clear upgrade, ie - you can use a 100MHz CPU and 66MHz SDRAM or vice versa

All Socket-7 / Super-7 Processors

Supports "classic" version 66MHz Intel® Pentium®, AMD K6™, Cyrix/IBM 6x86MX™, IDT WinChip™ processors and 100MHz "Super 7" AMD K6-2™ / K6-3™, Cyrix Mill™, IDT WinChip2™ processors

66/75/83/95/100MHz FSB settings

Supports the full range of official Socket 7/ Super 7 external CPU speeds

USB

For outside-the-box multimedia components such as joysticks, speakers and digital cameras

FEATURES

- Integrated advanced 2D/3D AGP graphics with setup engine and DVD hardware acceleration
- Integrated AC-97 2.0 (meets PC98' Basic Audio spec.) / SoundBlaster-compatible legacy Audio
- Integrated Super I/O: FDC, parallel port, serial port, IR
- Advanced ECC memory controller supports up to 768MB PC100 SDRAM, Virtual Channel SDRAM, EDO, FP
- Compatible with all Socket 7 / Super 7 processors
- Synchronous/Asynchronous AGP/ PCI/memory operation
- 66/75/83/95/100MHz FSB settings
- Voltage, temperature, and fan speed hardware monitoring
- UDMA33/66
- Mobile PC power management w/ ACPI/OnNow
- Four port USB with 2x12MB/s bandwidth
- VT8501 North Bridge
- VT82C686A South Bridge

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