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## HP Pavilion Desktop PCs - Motherboard Specifications, A7V-VM (Tahiti)

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This document gives details on the A7V-VM motherboard. The information applies to the following HP Pavilion PC models:

Pavilion Model	Model Number	Intergrated on MB	Country
8776C	P2978A	10/100BaseT	US, Canada (Quebec)
7861	P2997A	10/100BaseT, Audio	Mexico, Venezuela, Colombia, Guatemala
7865	P3931A	10/100BaseT	US, Canada (Quebec)
7957	P5199A	10/100BaseT, Audio	Chile, Argentina
8860	P2941A	10/100BaseT, Audio	US, Canada (Quebec)
8870	P2942A	10/100BaseT, Audio	US
XL844	P3978	10/100BaseT, Audio	US
XL847	P3980A	10/100BaseT, Audio	US
XL848	P4043	10/100BaseT	US, Canada (Quebec)
XL866	P3945A	10/100BaseT, Audio	US
XL868	P3975A	10/100BaseT	US, Canada (Quebec)
XL876	P3946A	10/100BaseT, Audio	US
7950	P5158A	10/100BaseT, Audio	US, Canada (Quebec)
XL946	P5168A	10/100BaseT, Audio	US, Canada (Quebec)

### Motherboard specifications table

Part / Feature	Specification / Support
Motherboard name	A7V-VM
HP/Compaq name	Tahiti
System BIOS supplier	PhoenixBIOS
Processor brand	AMD
Processor socket type	Socket A
Processor family	Athlon Duron
Processor Speed	up to 1.4 GH

Processor front side bus frequency	100 MHz or 133 MHz FSB, depending on the specific processor
Chipset name	VIA KT133A
Memory type	SDRAM
Memory speed	100 MHz or 133 MHz
Memory sockets	Two DIMM (168-pin)
Maximum memory	512 GB (2 x 256 MB)  HP recommends a maximum of 128 MB per DIMM (256 maximum).
IDE modes	PIO Mode 3, 4, ATAPI
Expansion slots	1 AGP  3 PCI
Ports	<ul style="list-style-type: none"> <li>• 1 PS/2 keyboard</li> <li>• 1 PS/2 mouse</li> <li>• 1 10/100 network</li> <li>• 2 USB 1.0</li> <li>• 1 serial</li> <li>• 1 parallel</li> <li>• 1 VGA</li> <li>• Audio: Line in, Line out, and Microphone.</li> <li>• 1 game</li> </ul>

## Motherboard layout and photos

**Figure 1: Layout**

- 1 - AMD Athlon socket A processor connector
- 2 - North bridge VIA VT8363 system controller
- 3 - PC133/PC100-compliant DIMM sockets (memory)
- 4 - System battery
- 5 - A7V-VM IDE connectors
- 6 - South bridge VIA VT82C868A PCI super I/O controller
- 7 - Accelerated Graphics Port (AGP- 4X)
- 8 - PCI 133 MB/sec throughput expansion slots
- 9 - On-board LAN controller (Realtek 10/100MB fast Ethernet)

**Figure 2: Photo**

## Motherboard features

The features of this motherboard are:

- AMD Athlon Processor Support
- North Bridge System Chipset
- South Bridge System Chipset
- PC133/PC100 Memory Support
- Super Multi-I/O
- Expansion Slots
- Wake-Up Support
- AGP slot
- USB
- UltraDMA/66 and UltraDMA/33

- Onboard LAN Controller
- Onboard Audio

## System Memory (DIMM)

This motherboard uses only Dual Inline Memory Modules (DIMMs). Sockets are available for 3.3 volt (power level) unbuffered Synchronous Dynamic Random Access Memory (SDRAM) of 16, 32, 64, 128, 256, or 512 MB to form a memory size between 16 MB and 1 GB.

To use Error Checking and Correction (ECC), use a DIMM with 9 chips per side (standard 8 chips/side + 1 ECC chip).

DIMMs must be 3.3 V Unbuffered for this motherboard.

The notches on the DIMM module will shift between left, center, or right to identify the type and also to prevent the wrong type from being inserted into the DIMM slot on the motherboard. Ask your retailer the correct DIMM type before purchasing.

## System memory configuration chart

SDRAM in Bank 0	SDRAM in Bank 1	Total System Memory
Empty	16 MB	16 MB
Empty	32 MB	32 MB
Empty	64 MB	64 MB
Empty	128 MB	128 MB
16 MB	Empty	16 MB
16 MB	16 MB	32 MB
16 MB	32 MB	48 MB
16 MB	64 MB	80 MB
16 MB	128 MB	144 MB
32 MB	Empty	32 MB
32 MB	16 MB	48 MB
32 MB	32 MB	64 MB
SDRAM in Bank 0	SDRAM in Bank 1	Total System Memory
32 MB	64 MB	96 MB
32 MB	128 MB	160 MB
64 MB	Empty	64 MB
64 MB	16 MB	80 MB
64 MB	32 MB	96 MB
64 MB	64 MB	128 MB
64 MB	128 MB	192 MB
128 MB	Empty	128 MB
128 MB	16 MB	144 MB
128 MB	32 MB	160 MB
128 MB	64 MB	192 MB
128 MB	128 MB	256 MB
256 MB	Empty	256 MB
256 MB	256 MB	512 MB

## Jumper locations and functions

There are no jumper blocks on this motherboard. Settings controlled in BIOS.

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