

HP Consumer Support

Motherboard Specifications, P5S-VM (Osprey)

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Motherboard specifications table

Part / Feature	Specification / Support
Manufacture Name	P5S-VM
HP/Compaq name	Osprey
Motherboard supplier	ASUS
System BIOS supplier	PhoenixBIOS
Processor brand	AMD
Processor socket type	Socket 7
Processor family	Pentium K-6
Processor Speed	up to 550 MHz
Processor front side bus frequency	100 MHz or 133 MHz FSB, depending on the specific processor
Chipset	SIS 530
Memory type	SDRAM
Memory speed	66 MHz SDRAM or 100 MHz SDRAM depending on system
Memory sockets	Three DIMM (168-pin)
Maximum memory	HP recommends maximum of 384 MB (3 x 128 MB)
IDE modes	PIO Modes 3 & 4
Expansion slots	3 PCI 1 ISA
Ports	<ul style="list-style-type: none"> 1 PS/2 keyboard 1 PS/2 mouse 2 USB 1.0 1 LAN (RJ45) 1 serial 1 parallel 1 VGA Audio (optional): Line in, Line out, and Microphone 1 game (optional)

Contact HP

Product (e.g. Deskjet D2680)

Question or keywords



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System board layout

Figure 1: Layout

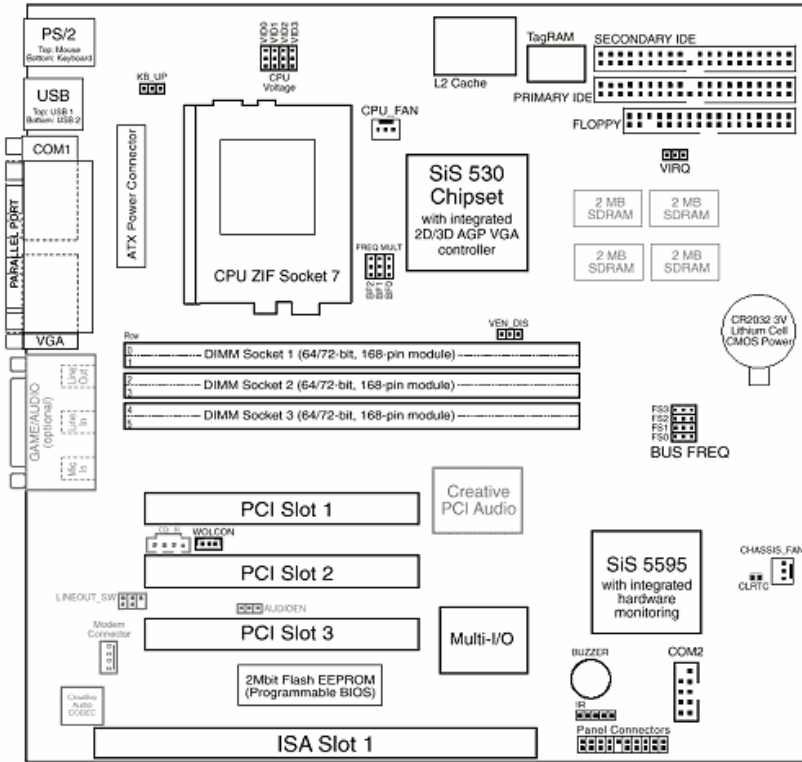
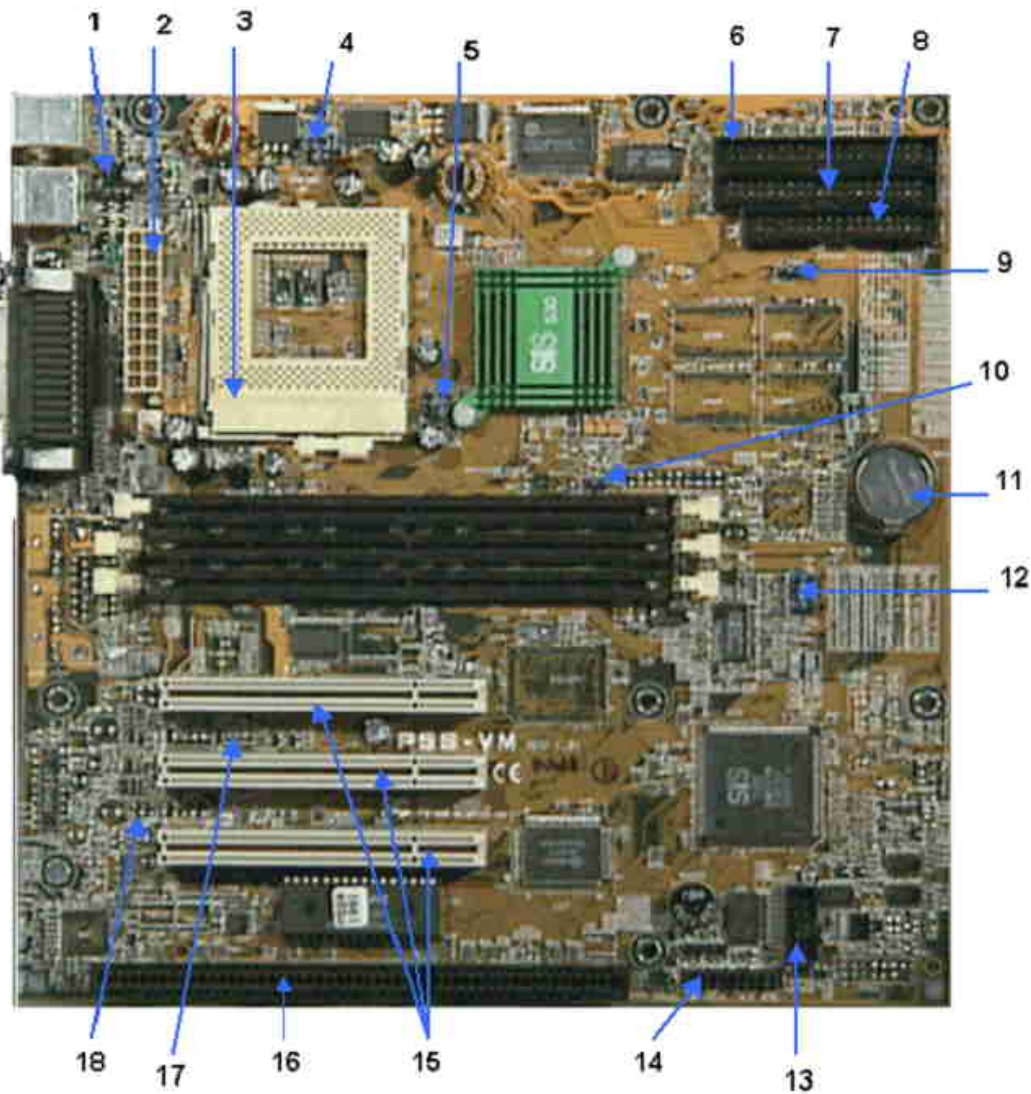


Figure 2: Photo



1- Keyboard wake-up (KB_UP) jumper	10- VGA setting (VEN_DIS)
2- ATX powerconnector	11- RTC battery
3- Socket 7 connector	12- CPU external (BUS) frequency selection
4- CPU voltage selection jumpers	13- COM2 connector
5- CPU to BUS frequency ratio jumpers	14- Front panel connector
6- Secondary IDE connector	15- PCI slot (top to bottom: slots 1,2 & 3)
7- Primary IDE connector	16- ISA slot 1
8- Floppy drive connector	17- Audio setting (AUDIOEN)
9- VGA interrupt selection (VIRQ) jumpers	18- Audio line out setting (LINEOUT_SW)

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Jumper settings and functions



WARNING:All jumper settings should be done with the PC off and the power disconnected.

VGA interrupt selection (VIRQ) and VGA setting (VEN_DIS)

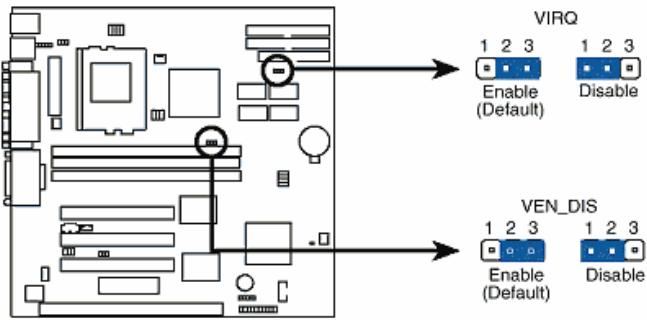
Jumpers for adjusting the on-board video.

Setting the VIRQ and VEN_DIS jumpers over pins 2-3 enables the VGA port.

Setting the VIRQ and VEN_DIS jumpers over pins 1-2 disables the VGA port (use this setting

when installing a video card).

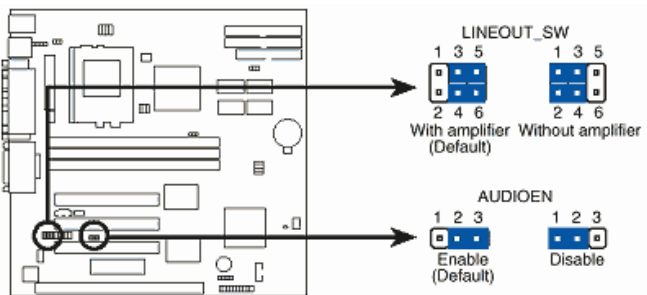
Figure 3: VIRQ and VEN_DIS jumper settings



Audio line out settings

Leave these jumpers set to disabled if Audio connectors are not present on the motherboard.
Jumper pins 3-5 and pins 4-6 of LINEOUT_SW if you are using speakers that require a powered signal (sound quality signal will be less).
Jumper pins 1-3 and pins 2-4 of LINEOUT_SW if you are using speakers that are powered.
Jumper pins 2-3 of AUDIOEN to enable audio (do not enable if there are no audio connections on the motherboard).
Jumper pins 1-2 of AUDIOEN to disable the motherboard audio.

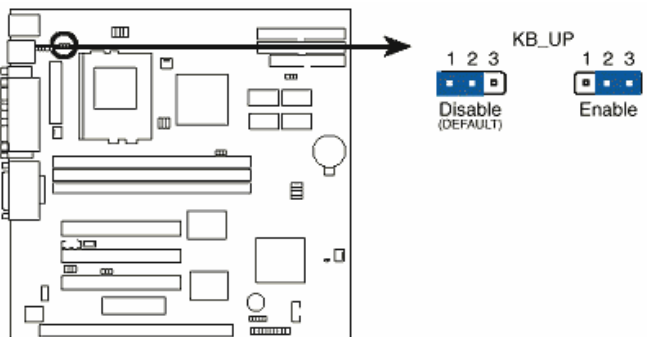
Figure 4: LINEOUT_SW and AUDIOEN jumper settings



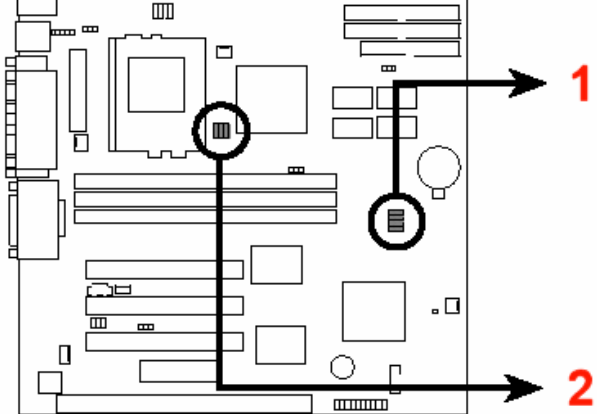
Keyboard power (wake) up (KB_UP)

Jumper pins 1-2 of KB_UP to disable wake-on-keyboard power save feature.

Figure 5: Wake and KB_UP jumper settings



CPU Speed setting



1 - CPU bus frequency jumpers

2 - CPU bus frequency multiply jumpers

Jumpers set the clock generator that the CPU and chipset read. These jumper settings set the CPU external frequency (or BUS Clock) and settings will result in higher or lower processor speeds.



CAUTION: Setting a speed rating higher than a processor is rated can damage the processor.

Figure 6: 1. CPU bus frequency jumpers

	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
FS3								
FS2								
FS1								
FS0								
1 -	133MHz	124MHz	112MHz	100MHz	95MHz	83.3MHz	75MHz	66.6MHz
2 -	133MHz	124MHz	112MHz	100MHz	95MHz	83.3MHz	75MHz	66.6MHz
3 -	33MHz	31MHz	37.3MHz	33.3MHz	31.7MHz	33MHz	30MHz	33MHz

	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
FS3								
FS2								
FS1								
FS0								
1 -	133MHz	124MHz	112MHz	100MHz	100MHz	95MHz	66.7MHz	90MHz
2 -	88.9MHz	82.7MHz	74.7MHz	75MHz	66.7MHz	63.3MHz	100MHz	90MHz
3 -	33MHz	31MHz	37.3MHz	30MHz	33.3MHz	31.7MHz	33.3MHz	30MHz

1 - CPU frequency

2 - Memory frequency - SDRAM

3 - PCI frequency

CPU bus frequency multiply jumpers

These jumpers set the frequency ratio between the internal frequency of the CPU and the external frequency (called the BUS Clock) within the CPU. These must be set together with the above jumpers CPU external (BUS) frequency selection.



CAUTION: Setting a multiplier rating to create a frequency that is higher than a processor is rated can damage the processor.

Figure 7: CPU to BUS frequency ratio jumper settings

BF→2	1 0	2 1 0	2 1 0	2 1 0	2 1 0	2 1 0	2 1 0	2 1 0
3								
2								
1								
CPU A →	3.5x(7/2)	2.0x(2/1)	2.5x(5/2)	3.0x(3/1)	4.0x(4/1)	4.5x(9/2)	5.0x(5/1)	5.5x(11/2)
CPU B →	1.5x(3/2)	2.0x(2/1)	2.5x(5/2)	3.0x(3/1)	—	—	—	—
CPU C →	3.5x(7/2)	2.0x(2/1)	2.5x(5/2)	3.0x(3/1)	—	—	—	—
CPU D →	3.0x(3/1)	2.0x(2/1)	1.0x(1/1)	—	—	—	—	—

1 - BF - Bus frequency jumper

2 - CPU A - AMD-K62, AMD-K6

3 - CPU B - Intel Pentium P54C, AMD-K5

4 - CPU C - Intel Pentium P55C, IBM/Cyrix 6x86MX, IBM/Cyrix M II

5 - CPU D - IBM/Cyrix 6x68, IBM/Cyrix 6x86L

Voltage regulator output selection (VID0, VID1, VID2, VID3)

These jumpers set the V_{CORE} voltage supplied to the CPU. Switching regulators allows some jumper settings to be the same for two voltages of different power planes.

Manufacturer	CPU	Single	Dual				
	Type	Phase	Plane				
AMD (.25 micron)	K6-2 450	-----	2.3V (Dual)	1-2	1-2	2-3	2-3
AMD (.25 micron)	K6-2 266, 300, 333, 366, 380, 400 K6-233, 266, 300	-----	2.2V (Dual)	2-3	1-2	2-3	2-3
AMD	K5	3.5V (VRE)	-----	1-2	1-2	1-2	1-2
IBM/Cyrix	6x86	3.5V (VRE)	-----	1-2	1-2	1-2	1-2
IDT	WinChip2	3.5V (VRE)	-----	1-2	1-2	1-2	1-2
Intel	P54C/ P54CS	3.5V (VRE)	-----	1-2	1-2	1-2	1-2
AMD	K5	3.4V (STD)	-----	2-3	1-2	1-2	1-2
Intel	P54C/ P54CS	3.4V (STD)	-----	2-3	1-2	1-2	1-2
AMD (.35micron)	K6-PR233	-----	3.2V (Dual)	2-3	2-3	1-2	1-2
AMD (.35micron)	K6-166, 200	-----	2.9V (Dual)	1-2	2-3	2-3	1-2
IBM/Cyrix	6x86MX	-----	2.9V (Dual)	1-2	2-3	2-3	1-2
Intel	P55C-MMX	-----	2.8V (Dual)	2-3	2-3	2-3	1-2

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