Motherboard Specifications, P5S-VM (Osprey)

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	• 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)

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System board layout

Figure 1: Layout

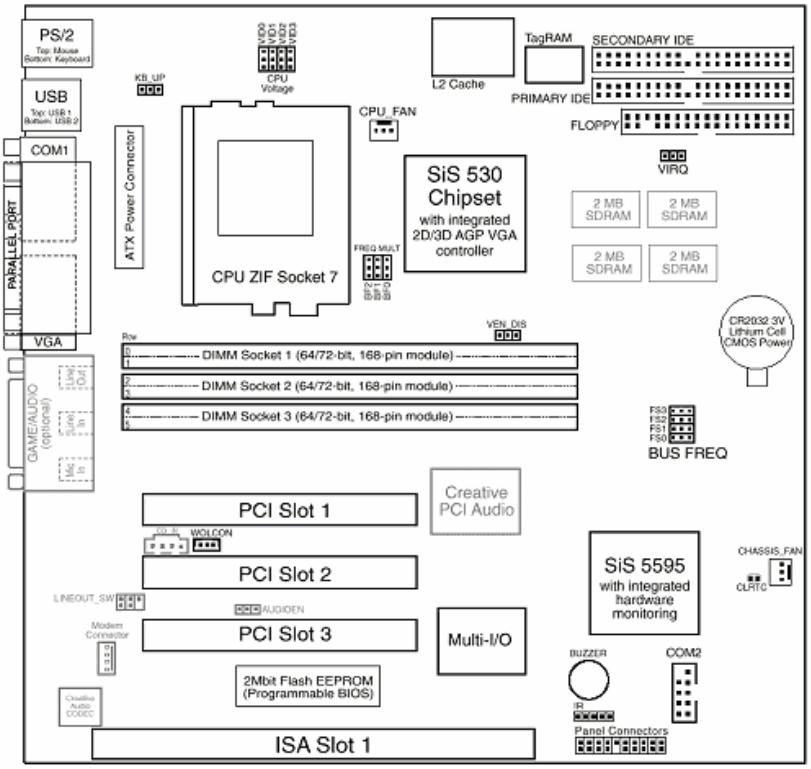
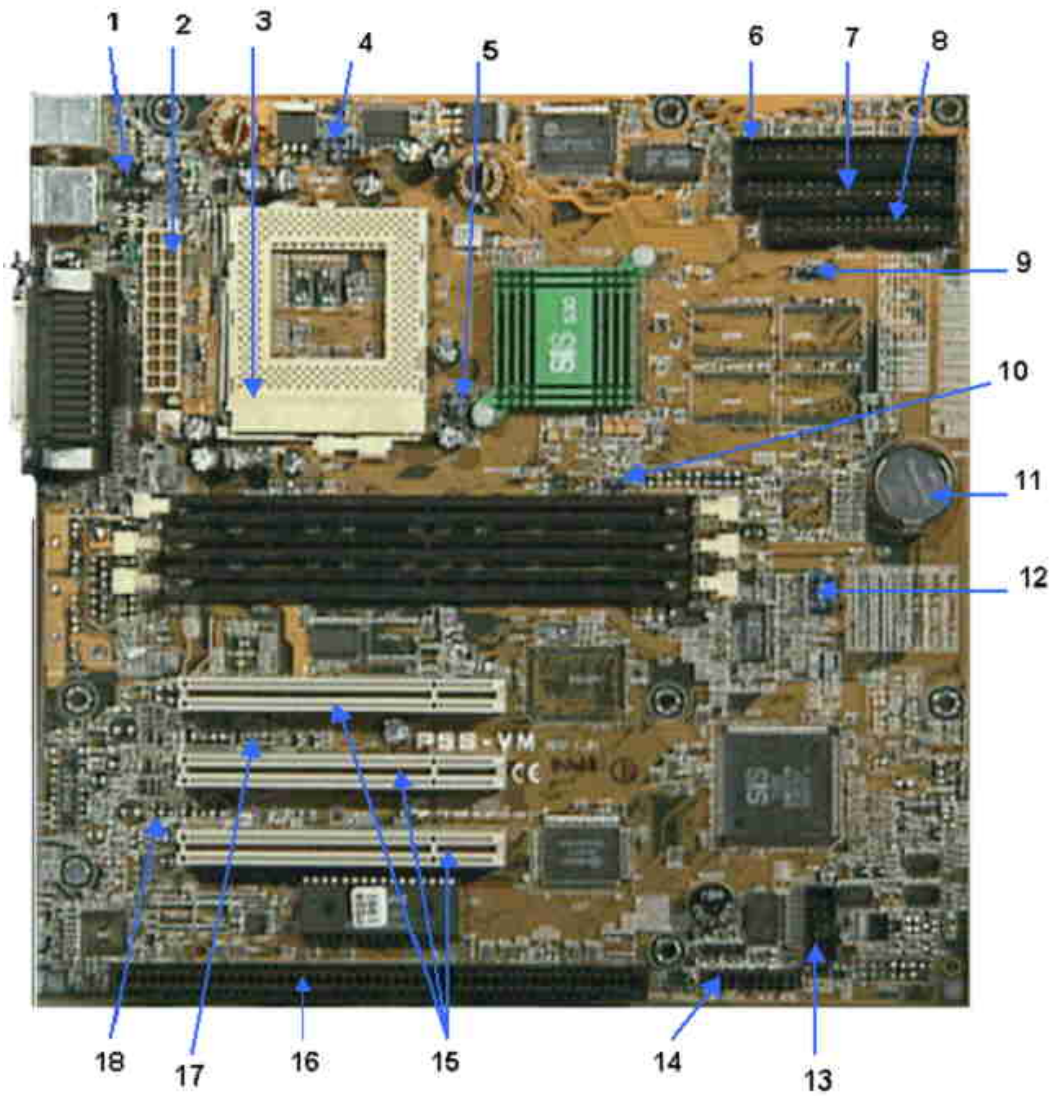


Figure 2: Photo



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.

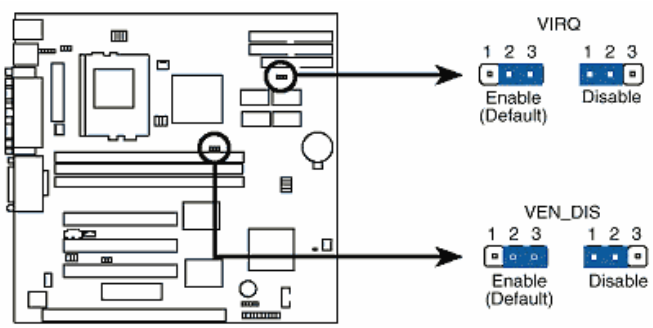
VGA interrupt selection (VIRQ) and VGA setting (VEN_DIS)

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).

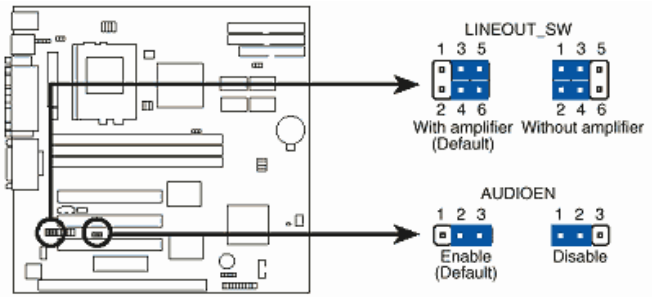
Figure 3: VIRQ and VEN_DIS jumper settings



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.

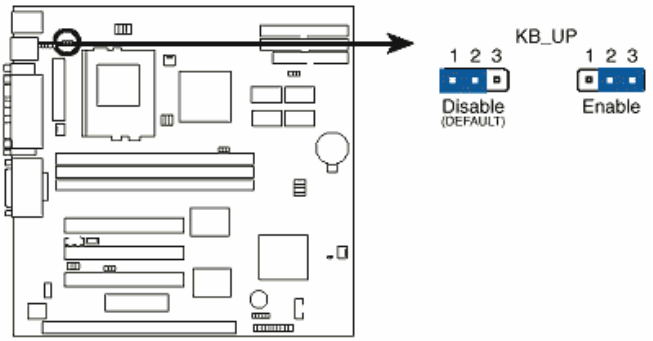
Figure 4: LINOUT_SW and AUDIOEN jumper settings



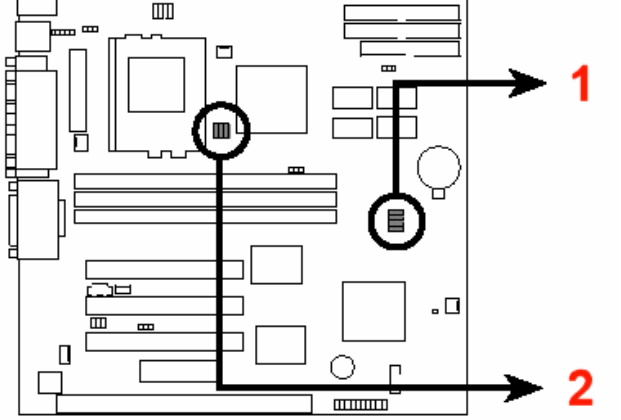
Keyboard power (wake) up (KB_UP)

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



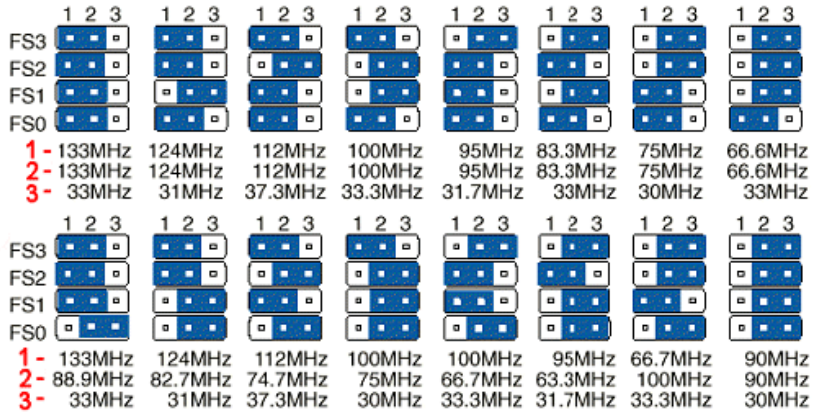
1 - CPU bus frequency jumpers

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 - CPU frequency

2 - Memory frequency - SDRAM

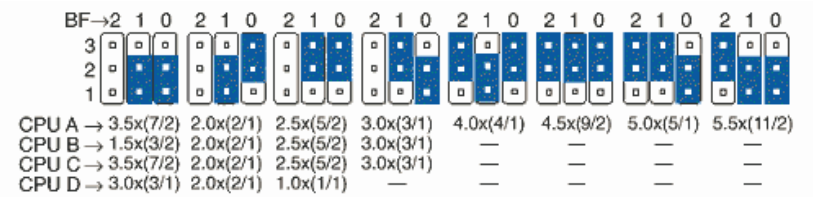
3 - PCI frequency

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 freuency that is higher than a processor is rated can damage the processor.

Figure 7: CPU to BUS frequency ratio jumper settings



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 VCORE voltage supplied to the CPU. Switching regulators allows some jumper settings to be the same for two voltages of different power planes.

Manufacturer	CPU Type	Single Phase	Dual 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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