

PM9200B CPU CLOCK SPEED & VOLTAGE SETTINGS

JP3, JP8 & JP10 CPU Clock Speed Jumpers

CPU TYPE	PR#	CPU CLOCK			CLK MULTIPLIER			DUAL VOLTAGE				
		MHz	JP3A	JP3B	JP3C	CLOCK	JP8A	JP8B	VALUE	JP10A	JP10B	TYPE
INTEL® PENTIUM® P54C		75	2-3	2-3	1-2	50MHz	1-2	1-2	1.5X	1-2	1-2	P54C
		90	2-3	1-2	1-2	60MHz	1-2	1-2	1.5X	1-2	1-2	P54C
		100	1-2	2-3	1-2	66MHz	1-2	1-2	1.5X	1-2	1-2	P54C
		120	2-3	1-2	1-2	60MHz	2-3	1-2	2.0X	1-2	1-2	P54C
		133	1-2	2-3	1-2	66MHz	2-3	1-2	2.0X	1-2	1-2	P54C
		150	2-3	1-2	1-2	60MHz	2-3	2-3	2.5X	1-2	1-2	P54C
		166	1-2	2-3	1-2	66MHz	2-3	2-3	2.5X	1-2	1-2	P54C
		180	2-3	1-2	1-2	60MHz	1-2	2-3	3.0X	1-2	1-2	P54C
		200	1-2	2-3	1-2	66MHz	1-2	2-3	3.0X	1-2	1-2	P54C
INTEL® PENTIUM® MMX™ P55C		166	1-2	2-3	1-2	66MHz	2-3	2-3	2.5X	2-3	2-3	P55C
		200	1-2	2-3	1-2	66MHz	1-2	2-3	3.0X	2-3	2-3	P55C
		233	1-2	2-3	1-2	66MHz	1-2	1-2	3.5X	2-3	2-3	P55C
CYRIX® IBM® 6x86	PR120+	100	2-3	2-3	1-2	50MHz	2-3	1-2	2.0X	1-2	1-2	P54C
	PR133+	110	2-3	1-2	2-3	55MHz	2-3	1-2	2.0X	1-2	1-2	P54C
	PR150+	120	2-3	1-2	1-2	60MHz	2-3	1-2	2.0X	1-2	1-2	P54C
	PR166+	133	1-2	2-3	1-2	66MHz	2-3	1-2	2.0X	1-2	1-2	P54C
	PR200+	150	1-2	2-3	2-3	75MHz	2-3	1-2	2.0X	1-2	1-2	P54C
CYRIX® IBM® 6x86L	PR166+L	133	1-2	2-3	1-2	66MHz	2-3	1-2	2.0X	2-3	2-3	P55C
	PR200+L	150	1-2	2-3	2-3	75MHz	2-3	1-2	2.0X	2-3	2-3	P55C
CYRIX® IBM® 6x86MX	PR166	150	2-3	1-2	1-2	60MHz	2-3	2-3	2.5X	2-3	2-3	P55C
	PR200	166	1-2	2-3	1-2	66MHz	2-3	2-3	2.5X	2-3	2-3	P55C
	PR233	188	1-2	2-3	2-3	75MHz	2-3	2-3	2.5X	2-3	2-3	P55C
AMD™ K5	PR75	75	2-3	2-3	1-2	50MHz	1-2	1-2	1.5X	1-2	1-2	P54C
	PR100	100	1-2	2-3	1-2	66MHz	1-2	1-2	1.5X	1-2	1-2	P54C
	PR120	90	2-3	1-2	1-2	60MHz	1-2	1-2	1.5X	1-2	1-2	P54C
	PR133	100	1-2	2-3	1-2	66MHz	1-2	1-2	1.5X	1-2	1-2	P54C
	PR150	150	2-3	1-2	1-2	60MHz	2-3	2-3	2.5X	1-2	1-2	P54C
	PR166	166	1-2	2-3	1-2	66MHz	2-3	2-3	2.5X	1-2	1-2	P54C
AMD™ K6	PR2-166	166	1-2	2-3	1-2	66MHz	2-3	2-3	2.5X	2-3	2-3	P55C
	PR2-200	200	1-2	2-3	1-2	66MHz	1-2	2-3	3.0X	2-3	2-3	P55C
	PR2-233	233	1-2	2-3	1-2	66MHz	1-2	1-2	3.5X	2-3	2-3	P55C

JP7 CPU Voltage Regulator Output Jumpers

JP7A	JP7B	JP7C	JP7D	JP7E	DESCRIPTION
SHORT	OPEN	OPEN	OPEN	OPEN	3.5 Volts (P54C, 6x86, K5)
OPEN	SHORT	OPEN	OPEN	OPEN	3.3 Volts
OPEN	OPEN	SHORT	OPEN	OPEN	3.2 Volts (K6 PR2-233)
OPEN	OPEN	OPEN	SHORT	OPEN	2.9 Volts (K6 PR2-166 & 200, 6x86L & 6x86MX)
OPEN	OPEN	OPEN	OPEN	SHORT	2.8 Volts (P55C)
OPEN	OPEN	OPEN	OPEN	OPEN	2.5 Volts

PM9200B SPECIFICATIONS

• CPUs SUPPORTED*

Intel® Pentium® P54C (75MHz to 200MHz)
 Intel® Pentium® MMX™ P55C (166MHz to 233MHz)
 Cyrix®/IBM® 6x86MX (PR166 to PR233)
 Cyrix®/IBM® 6x86L (PR166+ to PR200+)
 Cyrix®/IBM® 6x86 (PR120+ to PR200+)
 AMD™ K6 (PR2-166 to PR2-233)
 AMD™ K5 (PR75 to PR166)
 High Performance Intel 430TX Chipset
 Supports 3.5, 3.3, 3.2, 2.9, 2.8 & 2.5 volt CPUs with built-in switching voltage regulator

• MEMORY

Up to 256 MB of main memory in 4 (2 banks) auto banking 72-pin SIMM slots for Fast Page Mode or EDO DRAM, and 2 168-pin DIMM sockets for SDRAM, Fast Page Mode DRAM, or EDO DRAM modules.

• CACHE

On-Board 512KB Pipeline Burst Cache

• ENHANCED IDE CONTROLLER

Two PCI EIDE Interfaces for up to four EIDE devices in two channels. Individually supports PIO Mode 0 to 4 and Ultra DMA/33 protocol for all four devices - all four devices may have different PIO modes and performance will be optimized for each device

• BUS ARCHITECTURE

Four 32-bit PCI Local Bus Slots with Master Mode
 Three 16-bit ISA Bus Slots

• ON-BOARD I/O CONTROLLER

On-Board Interfaces for High Speed Multi-I/Os
 Two 16550 Fast Serial Ports
 One SPP, EPP & ECP Mode Capable Parallel Port
 One High Speed Floppy Drive Connector
 One PS/2-type Mouse Header.

• POWER MANAGEMENT FEATURES

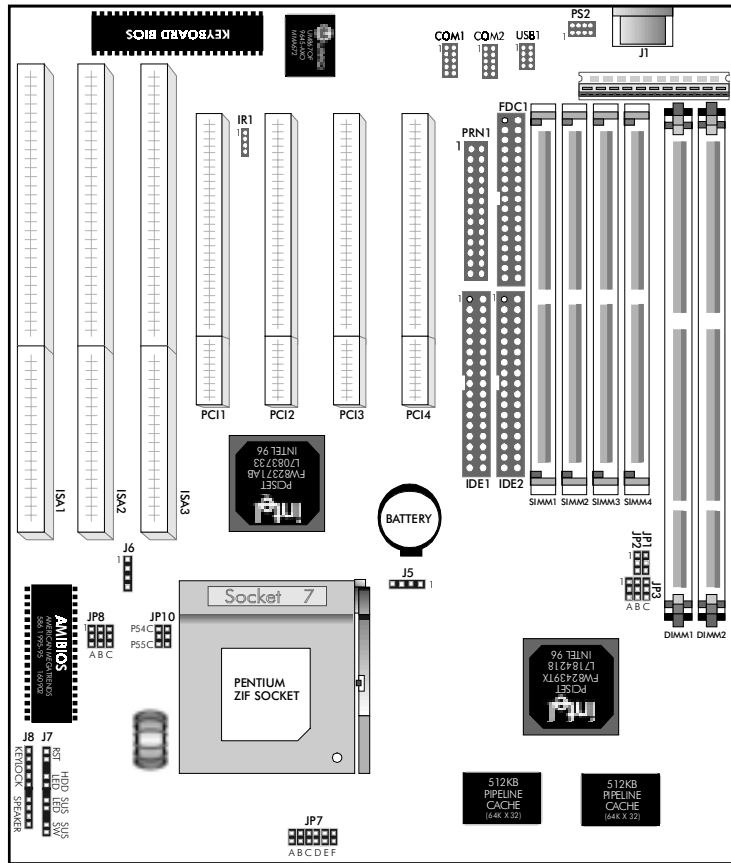
SMM/SMI Power Management with APM Software Interface - monitor CPU and I/O status with fully user configurable parameters in BIOS

• BIOS FEATURES

AMI "Plug and Play" Flash ROM for easy BIOS upgrades
 Built-in NCR810 SCSI BIOS Firmware

* PROCESSORS TESTED AT MANUAL'S RELEASE

PM9200B BOARD DIAGRAM



PM9200B QUICK INSTALLATION GUIDE

- (1) SET JP3, JP7, JP8 & JP10 TO CONFIGURE YOUR BOARD FOR YOUR CPU** It's fairly easy to forget a jumper or two, so before you power on your system, make sure to check & double check your settings so that you don't prematurely burn out your CPU.
- (2) INSERT THE CPU INTO THE ZIF SOCKET** Just align the dotted corner of your CPU with the corner of the ZIF socket that looks like its missing a pinhole and pull down gently on the handle.
- (3) SET JP1 & JP2 AND INSTALL YOUR MEMORY INTO THE CORRESPONDING SOCKETS**
- (4) INSTALL THE MOTHERBOARD ONTO THE SYSTEM CHASSIS MAKING SURE THAT IT IS PROPERLY GROUNDED AND MOUNTED** Take time to do this properly as it makes the installation of your cards and cables easier.
- (5) CONNECT YOUR HARD DRIVE(S), FLOPPY DRIVE(S), KEYBOARD, PERIPHERAL CARDS, AND I/O CABLES TO THE BOARD** Be sure your cables and cards are properly oriented and plugged in firmly.
- (6) CONNECT YOUR CASE LED & SWITCH CABLES TO THE BOARD**
- (7) CONNECT THE POWER SUPPLY CABLES TO THE BOARD AND TURN ON THE MACHINE**
- (8) GO INTO BIOS AND SETUP YOUR PERIPHERALS AND SYSTEM CONFIGURATION** Press during memory check phase of POST to enter the BIOS.
- (9) CLOSE YOUR CASE ONCE YOUR COMPUTER AND YOUR OS IS WORKING FINE** Bootup your OS and see if the board and all your peripherals are recognized and working.

PM9200B BOARD HEADER PINOUTS AND JUMPER SETTINGS

J8 (KB LOCK) - Keylock & PWR LED

PIN	DESCRIPTION
1	LED Output
2	N.C.
3	Ground
4	Keylock
5	Ground

J8 (SPEAKER) - Speaker Header

PIN	DESCRIPTION
1	DATA Out
2	N.C.
3	Ground
4	+5V

J7 (RESET) - Reset Switch Jumper

JUMPER	DESCRIPTION
OPEN	Normal Mode
SHORT	System Reset

J7 (HDD-LED) - Hard Drive LED

PIN	DESCRIPTION
1	+5V
2	Ground

J7 (SUS LED) - Turbo LED

PIN	DESCRIPTION
1	Anode (+)
2	Ground

J7 (SUS SW) - Turbo Switch

JUMPER	DESCRIPTION
OPEN	Normal Mode
SHORT	Suspend Mode

J5 - CMOS Battery Jumper

JUMPER	DESCRIPTION
2 - 3	Internal Battery Mode (default)
3 - 4	Clear CMOS
1 - 4	External Battery Mode

Fan Power Connector

PIN	DESCRIPTION
1	+12V
2	Ground
3	Ground
4	+5V

PS1 - PS/2 Mouse Connector

PIN	DESCRIPTION
1	Mouse Clock
2	Ground
3	N.C.
4	Mouse Data
5	N.C.
6	N.C.
7	N.C.
8	+5VDC

P1 - Power Supply Connector

PIN	DESCRIPTION
1	Power Good
2	+5VDC
3	+12VDC
4	-12VDC
5	Ground
6	Ground
7	Ground
8	Ground
9	-5VDC
10	+5VDC
11	+5VDC
12	+5VDC

J3, J4 - 2 Channel USB Connector

PIN	DESCRIPTION
1,2	+5VDC
3,4	USB DATA (-)
5,6	USB DATA (+)
7,8	Ground
9,10	Ground

JP1, JP2 DIMM Voltage Selector

JP1	JP2	DESCRIPTION
2 - 3	2 - 3	For SDRAM DIMM modules (3.3 V)
1 - 2	1 - 2	For EDO DRAM/Fast Page Mode DIMM Modules (5V)