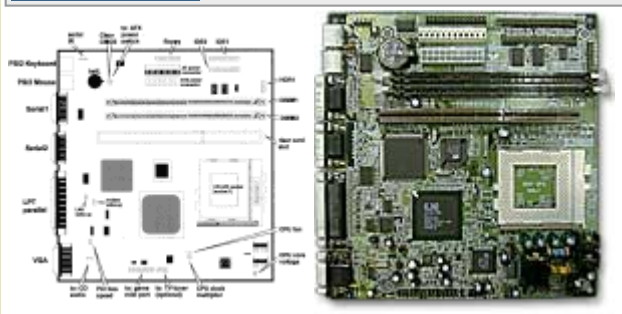
Applicable for PowerSpec models: 2020, 2021, 2040

ECS P5GM-LG System Board



ECS P5GM-LG Typical Memory Expansion

The following table shows several possible memory combinations. The P5GM-LG system board supports from 8 to 512MB of 168-pin SDRAM DIMM modules. When using one DIMM module, install it in SDRAM slot 1.

DIMM1	DIMM2	Total system memory installed
8MB	-	8MB
8MB	8MB	16MB
64MB	-	64MB
64MB	64MB	128MB
256MB	256MB	512MB

ECS P5GM-LG Jumpers

Jumper	Description	Settings
JP8	CPU clock multiplier The ZIF socket 7 supports Cyrix GXm86 processors, with clock speeds of either 180 or 200 MHz. For 180 MHz and 233 MHz processors, the multiplier should be set to x6 PCI bus speed	**Clock multiplier** / **Pins 1-2** / **Pins 3-4** x4 / short / short x6 / short / open x7 / open / short x8 / open / open
JP2	Bus Frequency For 200 MHz processors, set the frequency to 33 MHz. For 180 MHz processors, set the frequency to 30 MHz.	**Frequency** / **Pins 1-2** / **Pins 3-4** 33 MHz / short / open 30 MHz / short / short
JP10	CPU Core Voltage For 180 MHz and 200 MHz processors, the core voltage should be set to 2.9v	**Core Voltage** / **Pins 1-2** / **Pins 3-4** 2.9v / open / short 3.3v / short / open

ECS P5GM-LG Connectors

Connector	Function
Serial IR (J6) Fast IR (J7)	Connects to optional Serial InfraRed module (SIR- J6) or Fast InfraRed (FIR- J7)
Clear CMOS	Normal Operation: short pins 1-2 Clear CMOS memory: short pins 2-3 * * With system powered off and power cable removed, move jumper to 2-3 position for a few seconds to clear the CMOS battery-backed memory. Return to the 1-2 position, connect power, and restart the computer.
ATX power switch	Connects to front panel momentary switch for Power On/Off signal when using ATX power supply
AT power connector (JP6)	Connects to standard (AT style) power supply leads P8 and P9
ATX power connector (U12)	Connects to ATX power supply lead
Floppy (J9)	34-Pin connector connects to 2-device cable; End device is A:, middle device is B:
IDE2 (J10)	40-pin connector connects to supplied 2-device cable; Secondary Master / Slave devices via supplied cable
IDE1 (J11)	40-pin connector connects to supplied 2-device cable; Primary Master / Slave devices via supplied cable
HDR1	**Pins** / **Front panel Connection** 1-2 / Standby (suspend mode) LED 3-4 / Power LED 5-6 / Hard drive access LED 7-8 / reserved 9-10 / Reset button 11-12 / Standby button 13-16 / reserved
DIMM1, DIMM2	Memory expansion slots
Riser slot	Slot for expansion slot riser card with ISA and PCI expansion slots
CPU Fan connector	Connects to CPU heat sink cooling fan
TV tuner	Connects to optional TV-out connector
Game Midi port (J8)	Audio, game port header (J8) connects to audio bracket
CD Audio (JP1)	Connects to CD-Audio Out connector on CD ROM drive
LAN wake-up	Connects to wake up connection on some local area network cards
Modem wake-up	Connects to wake up connection on some internal modem cards
VGA (P1)	Standard hd-15 female connector; VGA video out
LPT (J1)	db-25 female parallel port connector, can be configured in various modes via CMOS Setup
Serial1 (J3)	db-9 male serial connector, can be configured COM1, COM3, or disabled
Serial2 (J2)	db-9 male serial connector, can be configured COM2, COM4, or disabled.
PS/2 mouse (J4)	Connects to PS/2 Mouse or other pointing device
PS/2 keyboard (J5)	Connects to PS/2 Keyboard (or AT keyboard with adapter)

J8 Sound Card Connections