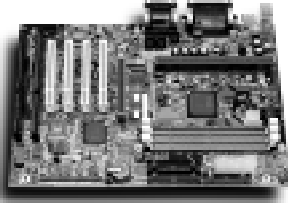


# Redstone

**M1SBR**

**Quick Setup Guide**

- Features
- Specifications
- Contents
- Jumper Settings
- Pinouts
- I/O connector Definitions



**MICRONICS**  
HIGH-PERFORMANCE SYSTEM-BOARDS

## STANDARD FEATURES

- ATX Footprint 8.3" x 12"
- Single Intel Slot 1 CPU support
- Supports Intel 66MHz FSB CPUs 233MHz to 333MHz and 100MHz FSB CPUs at 350MHz to 400MHz
- Jumperless CPU configuration via BIOS
- Intel 440BX AGPset north bridge
- (3) 3.3Volt unbuffered 168-pin DIMM Sockets with support 66MHz SDRAM and PC100 spec 100MHz SDRAM
- Maximum memory 768MB
- Dual Channel PCI BUS mastering EIDE with Ultra DMA/33 Protocol support

- (1) AGP slot / (3) PCI slots / (1) PCI/ISA shared expansion slot
- (2) USB (Universal Serial BUS) ports
- (2) Serial (16550 UART compatible) ports
- (1) ECP/EPP/STD Parallel port
- IrDA Compliant IR Header

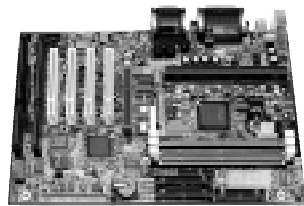
## BIOS FEATURES

- Phoenix 4.06 BIOS on 2MB Flash
- Advanced Power Management 1.2
- Quick Boot / Multi-Boot-II
- DMI 2.0 / SMI

## OPTIONAL FEATURES (MANUFACTURING OPTIONS)

- LM79 Microprocessor System Hardware Monitor
  - (1) CPU fan speed monitoring 3-pin headers
  - (1) LM75 CPU temperature sensors
  - (1) Chassis intrusion 2-pin header
  - (1) Chassis fan speed monitoring 3-pin header
- Ensoniq ES1371 PCI Audio
  - Line-in, Line-out, Mic, and Game/MIDI port
  - PC/PCI ready (14-pin & 6-pin header)
  - 4-pin CD-ROM audio header (ATAPI)
  - 4-pin telephony header (ATAPI)
  - 4-pin line in header (ATAPI)
  - 4-pin Aux 2 header (ATAPI)
  - 4-pin Video-in header (ATAPI)

## C o n t e n t s



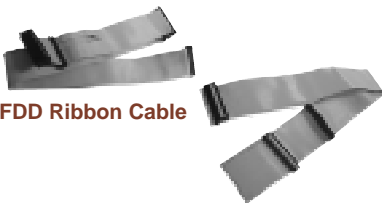
System Board



Processor Retention Posts



Processor Retention Mounts



FDD Ribbon Cable

HDD Ribbon Cable



Quick Installation Guide



Install CD

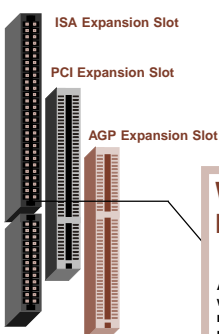
## Contents Listing

- (1) Redstone System Board
- (1) CPU Retention Posts
- (2) CPU Retention Mounts
- (1) Two Device 34-Pin Floppy Disk Drive Ribbon Cable
- (1) Two Device 40-Pin Hard Disk Drive Ribbon Cable
- (1) Device Drivers CD-ROM with software manual via Adobe Acrobat Reader

## Jumper Setting Reference Guide

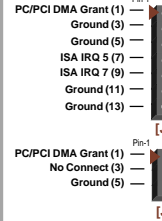
All jumper settings and connectors are defined in this section. For more detailed documentation, please refer to the CD-ROM manual. You will need Adobe Acrobat Reader (included) to view the documentation.

### Expansion Slots



### PC/PCI Header [J41, J42]

PCI Sideband Signals Connector (for cards that use PC/PCI DMA, PCI Serial IRQs and/or ISA IRQ's) Do not connect cables to J21 and J22 simultaneously.



No audio version only

### Wake on LAN Header [W5]

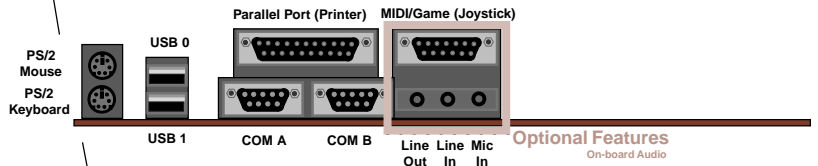
Ability to power on the computer with a Wake-on-LAN enabled network adapter for remote management.

Optional Features

### AGP Accelerated Graphics Port

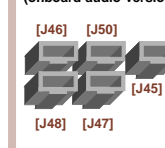
### Rear Panel Connector Definition

The Redstone board is compatible with the Intel Venus back panel.



### Audio Headers [J45, J46, J47, J48, J50]

Internal ATAPI audio headers for integration with, CD-ROM audio, TV tuner, voice MODEMS, DVD ROM audio, and MPEG cards. (onboard audio version only)



### Phone In Mono Out [J50]



### ATAPI [J45, J46, J47]



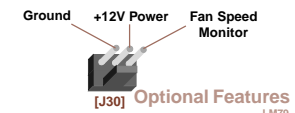
### FS BUS Connector [J48]



Optional Features

### Chassis Cooling Fan Header [J30]

Board equipped with the optional LM79 microprocessor system monitoring hardware can add chassis cooling fan speed monitoring with the use of a 3-pin fan.



### Chassis Intrusion Sensor [J32]

Boards equipped with the LM79 microprocessor system monitoring hardware can add a chassis intrusion sensor to warn an administrator of an unauthorized entry into the chassis.



### Clear CMOS [W4]

To clear your CMOS to defaults, power down, short pins 2-3 for 5 seconds. Reset the jumper back to pins 1-2 then power up the computer.

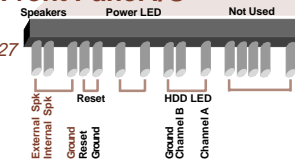
Jumper	Function	Settings
W4	Normal (default)	1-2
	Clear CMOS	2-3

### Wake on Ring Header [J41]

Ability to power on the computer with a Wake on Ring enabled MODEM for remote management, etc.

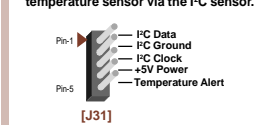
Optional Features

### Front Panel I/O



### I<sup>2</sup>C BUS Connector [J31]

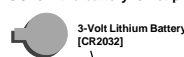
Boards equipped with the LM79 microprocessor system monitoring hardware can add an additional temperature sensor via the I<sup>2</sup>C sensor.



Optional Features

### CMOS Battery

The CMOS battery supplies power to your BIOS settings. The CMOS settings will reset every time the computer BOOTS if the battery is not present.



### CPU Setup Mode [W1]

Set Jumper 2-3 to enter the CPU setup mode in BIOS. Set Jumper 1-2 there after for normal operation.

Jumper	Function	Settings
W1	Normal (default)	1-2
	Invoke BIOS Setup to Change CPU speed	2-3

### Aux HDD Activity [J11] Input

SCSI, Tape, other peripheral activity input.

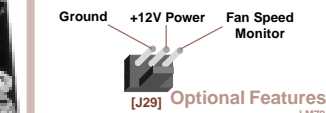


### Primary CPU [U1]

Slot 1 processor socket. Capable of handling 66MHz FSB CPUs at 233-333MHz and the new 100 FSB CPUs at 350-400MHz. Must use retention mechanism physical support for the SEC (Single Edge Contact) Pentium II Package.

### CPU Cooling Fan [J29] Header

Board equipped with the optional LM79 microprocessor system monitoring hardware can add CPU cooling fan speed monitoring with the use of a 3-pin fan.



### Power Supply Connector [J44]

6-Pin Optional



### DIMM Sockets [J3, J4, J5]

3.3 Volt unbuffered 168-pin DIMMs only. PC100 MHz SDRAM required for 100MHz FSB CPUs. No EDO DIMMs supported. Max memory 768MB. ECC supported via chipset.



### ATX Power Connector [J26]



### FDD Header [J10]

When connecting floppy devices, align pin-1 to the red stripe on the ribbon cable.



### HDD Header [J8, J9]

When connecting EIDE devices, align pin-1 to the red stripe on the ribbon cable. UDMA/33 Protocol supported. 2 devices max per channel.



## Installation

Follow the instructions provided by your chassis manufacturer for details on hardware installation. Before booting the system board for the first time, set your Jumper W1 to 2-3, "SETUP" mode, then power ON. Once the CPU setting is completed through your BIOS, Save & Exit then power OFF. Change the Jumper W1 back to 1-2, "NORMAL" mode and reboot. For a more detailed manual of the REDSTONE system board, please refer to the manual located on your installation CD-ROM.