

Helios

M1DBH

Quick Setup Guide

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

STANDARD FEATURES

- ATX Footprint 8.3" x 12"
- Dual Intel Slot 1 CPU support. Single or Dual operation OK
- Supports Intel 66MHz FSB CPUs 233MHz - 333MHz and 100MHz FSB CPUs 350MHz - 400MHz
- Jumperless CPU configuration via BIOS
- Intel 440BX AGPset north bridge
- (4) 3.3Volt unbuffered 168-pin DIMM Sockets with support for 66MHz SDRAM or PC100 spec 100MHz SDRAM
- Maximum memory 1GB
- Dual Channel PCI BUS mastering EIDE with Ultra DMA/33 Protocol support

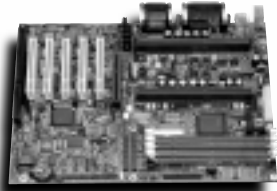
- (1) AGP slot / (4) PCI slots / (1) PCI/ISA shared expansion slot
- (2) USB (Universal Serial BUS) ports
- (2) Serial (16550 UART compatible) ports
- (1) ECP/EPP/STD Parallel port

BIOS FEATURES

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

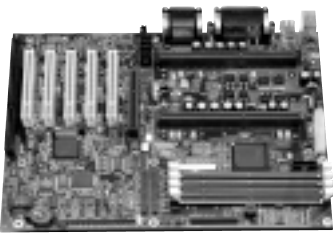
OPTIONAL FEATURES (MANUFACTURING OPTIONS)

- LM79 Microprocessor System Hardware Monitor.
 - (2) CPU fan speed monitoring 3-pin headers
 - (2) LM75 CPU temperature sensors
 - (1) Chassis intrusion 2-pin header
 - (1) Chassis fan speed monitoring 3-pin header
- ESS Maestro-2 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)



MICRONICS
HIGH-PERFORMANCE SYSTEM-BOARDS

Contents



System Board



Processor Terminator Card



CPU Retention Posts



CPU Retention Mounts



FDD Ribbon Cable



HDD Ribbon Cable



Quick Installation Guide



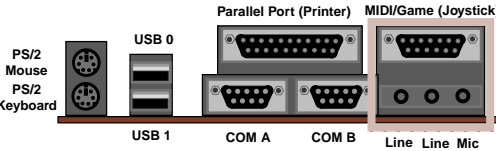
Install CD

Contents Listing

- (1) Helios System Board
- (1) Processor Terminator Card
- (2) CPU Retention Posts
- (4) 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

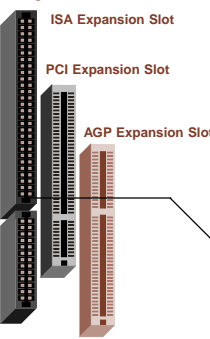
All jumper settings and connectors are defined in this section. For more detailed documentation, please refer to the CD-ROM manual. You will need Adobe Acrobat Reader (included) to view the documentation.



Factory Use Only [W10]

Jumper	Function	Settings
W10	Normal (default) Reserved	Open Close

Expansion Slots

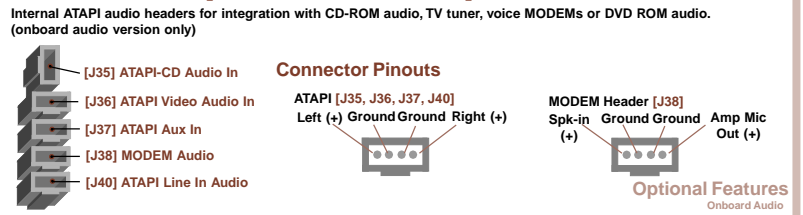


USB Routing [W5, W6, W7]

Future AGP devices may require the use of your USB ports. The secondary USB port (Port 1) can either be directed toward the USB port on the back panel (default) or routed to the AGP port.

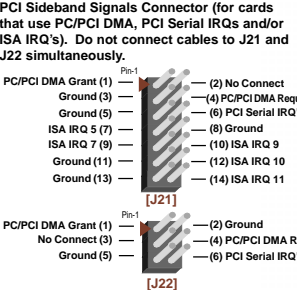
Jumper	Function	Settings
W5-W7	Secondary USB (Port 1) routed to J1	1-2
	Secondary USB (Port 1) routed to J12 (default)	2-3

Audio Headers [J35, J36, J37, J38, J40]



AGP Accelerated Graphics Port

PC/PCI Header [J21, J22]



On-Board Audio [W11]

Jumper	Function	Settings
W11	Enable/Disable Sound via BIOS (default) Disable Sound via Hardware	Close Open

Optional Features
On-board Audio

CPU Setup Mode [W12]

Set Jumper (Close) to enter the CPU setup mode in BIOS. Jumper (Open) there after for normal operation.

Jumper	Function	Settings
W12	Normal (default) Invoke BIOS Setup to Change CPU speed	Open Close

Clear CMOS [W9]

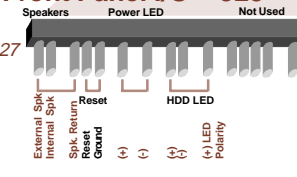
To clear your CMOS to defaults, power down, short pins 2-3 for 5 seconds. Reset the jumper back to pins 1-2 then power up the computer

Jumper	Function	Settings
W9	Normal (default) Clear CMOS	1-2 2-3

I²C BUS [J33]



Front Panel I/O - J28

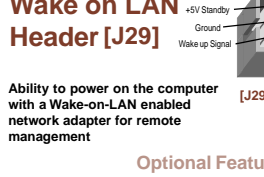


BIOS Type [W4]

Set by factory for the type of BIOS chip used

Jumper	Function	Settings
W4	Flash BIOS (default) Reserved	1-2 2-3

Wake on LAN Header [J29]

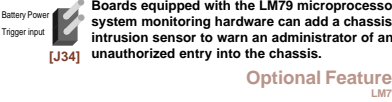


CMOS Battery

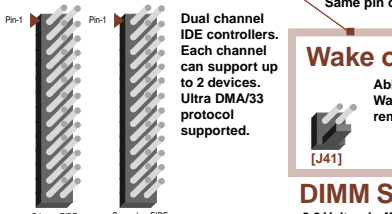
The CMOS battery supplies power to your BIOS settings. The CMOS settings will reset every time the computer BOOTS if the battery is not present.

3 Volt Lithium Battery [CR2032]

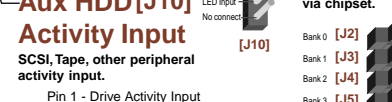
Chassis Intrusion Sensor [J34]



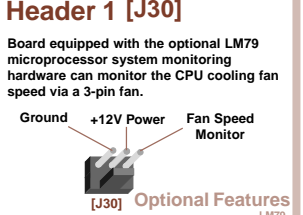
HDD Header [J7, J8]



Aux HDD [J10] Activity Input



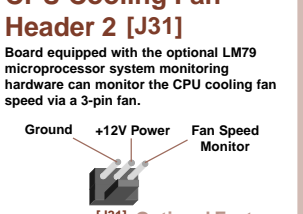
CPU Cooling Fan Header 1 [J30]



Primary CPU Secondary CPU

ATX Power Connector

CPU Cooling Fan Header 2 [J31]



FDD Header [J9]

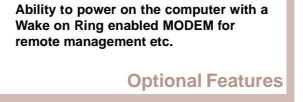


Chassis Cooling Fan

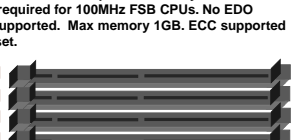
Same pin out as J31.

[J32]

Wake on Ring Header [J41]



DIMM Sockets [J2, J3, J4, J5]



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 W12 to (close), "SETUP" mode, then power ON. Once the CPU settings are completed through your BIOS, Save & Exit then power OFF. Change the Jumper W12 back to (Open), "NORMAL" mode and reboot. For a more detailed manual of the HELIOS system board, please refer to the manual located on your installation CD-ROM.