



MB-G4H875-N-G

Intel® 875P Chipset, Socket 478-based Intel® ATX Board

PROCESSOR (Socket 478-based Intel®)

- Intel® Pentium® 4 Processor with Hyper-Threading Technology
 - Up to 3.2GHz+ with 512KB and 1GB cache
 - 533/800MHz system data bus
- Intel® Pentium® 4 processor
 - 400/533MHz system data bus
- Intel® Celeron® processor
 - 400MHz system data bus

CHIPSET

- Intel® 875P chipset
 - Intel® 82875P Memory Controller Hub (MCH)
 - Intel® 6300ESB I/O Controller Hub

SYSTEM MEMORY

- Supports dual channel (128-bit wide) memory interface
 - Each channel supports 2 DIMM sockets
- Supports maximum of 4GB system memory
- Supports Dynamic mode to optimize system performance
- Synchronous operation with processor system bus
 - PC2100/PC2700/pc3200 (DDR266/DDR333/DDR400) with 800MHz FSB CPU (supports PAT mode). DDR333 will run at 320MHz memory frequency when used with 800MHz FSB CPU
 - PC2100/PC2700 (DDR266/DDR333) with 533MHz FSB CPU
 - PC2100 (DDR266) with 400MHz FSB CPU
- Supports ECC/non-ECC DIMMs
- Supports unbuffered DIMMs

BIOS

- Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play compatible
- 4Mbit or 8Mbit flash memory
- Supports optional BIOS Write Protect function by hardware
- Supports DMI 2.0 function

ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
 - Wake-On-PS/2 Keyboard/Mouse
 - Wake-On-USB Keyboard
 - Wake-On-Ring (external modem)
 - Wake-On-LAN
- RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0a specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors Vcore/VCC3/±12V/VCC/VBAT/5VSB, voltages, and failure alarm
- Monitors chassis/CPU/MB fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- CPU Fan Protection function monitors the CPU fan during system boot up
- CPU Temperature Protection function monitors the CPU temperature during system boot up
- Supports Watchdog Timer Function

ONBOARD AUDIO FEATURES

- 18-bit stereo full-duplex codec with independent variable sampling rate
- High quality differential CD input
- True stereo line level outputs
- 2-channel audio output

ONBOARD LAN FEATURES

- 82547EI Gigabit LAN CSA interface
 - Integrated power management functions
 - Full duplex support at 10, 100, and 1000 Mbps
 - Supports IEEE 802.3 auto-negotiation
 - Supports wire for management
- 82551 QM fast ethernet controller
 - Integrated IEEE 802.3, 10BASE-T and 100BASE-TX compatible PHY
 - Glueless 32-bit PCI master interface
 - Glueless CardBus master interface
 - 128Kbyte Flash interface
 - Thin BGA 152mm package

PCI IDE INTERFACE

- Supports ATA/33, ATA/66 and ATA/100 hard drives
- PIO Mode 4 Enhanced IDE (data transfer rate up to 14MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120 and ZIP

Serial ATA IDE INTERFACE

- Supports two SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)

ACCELERATED GRAPHICS PORT (A.G.P.)

- Supports 1.5V AGP 8x (2.13GB/sec.) and AGP 4x (1066MB/sec.) for 3D graphics applications (AGP 2x and 3.3V AGP card are not supported)

REAR PANEL I/O PORTS

- 4 USB 2.0/1.1 ports
- 2 RJ45 LAN port
- 2 DB-9 serial port
- 1 DB-25 parallel port
- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 3 audio jacks: line-out, line-in and mic-in

CONNECTORS

- 2 connectors for 2 external serial ports
- 1 front audio connector for external line-out and mic-in jacks
- 1 connector for an external game/MIDI port
- 2 internal audio connectors (CD-in and AUX-in)
- 1 connector for IrDA interface
- 2 Serial ATA connectors
- 2 IDE connectors
- 1 floppy connector
- 1 opened chassis alarm connector
- 2 ATX power supply connectors
- 1 Wake-On-LAN connector
- CPU fan, chassis fan, second fan, and MB fan

EXPANSION SLOTS

- 1 AGP slot- 1.5V AGP
- 4 PCI slots
- 1 PCI-X 64-bit/66MHz slot

COMPATIBILITY

- PCI 2.2 and AC '97 compliant
- Intel® AGP version 3.0

PCB

- 4 layers, ATX form factor
- 30.5cm (12.05") x 24.4cm (9.6")

SAFETY

- UL, cUL, FCC, CE