

## G4H875-P

### Intel® 875P ATX System Board

#### PROCESSOR

- Intel® Pentium® 4 (Prescott and Northwood) processor up to 3.4GHz+
  - Intel Hyper-Threading Technology
  - FSB: 533MHz and 800MHz
- Intel® Celeron® / Celeron® D processor
  - 400/533MHz system data bus
- Socket 478

#### CHIPSET

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

#### SYSTEM MEMORY

- Supports dual channel (128-bit wide) memory interface
  - Each channel supports 2 DIMM sockets
- Supports up to 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
- 4Mbit flash memory
- Supports optional BIOS Write Protect function by software

#### 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/Mouse
  - 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/1.5V/3.3V/5V/12V/VBAT/5VSB voltages and failure alarm
- Monitors chassis/CPU/2nd 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 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

- Dual Gigabit LAN
  - 82547GI Gigabit LAN CSA interface
  - 82541GI Gigabit LAN PCI interface
- Integrated power management functions
- Fully compliant to IEEE 802.3 (10BASE-T), 802.3u (100BASE-TX) and 802.3ab (1000BASE-T) standards

#### 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 INTERFACE with RAID

- Supports two SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)
- RAID 0 and RAID 1

#### 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)
- Supports AGP 3.0 and AGP 2.0 spec.

#### REAR PANEL I/O PORTS

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

#### I/O 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
- 1 CD-in internal audio connector
- 1 S/PDIF-out connector
- 1 connector for IrDA interface
- 2 Serial ATA connectors
- 2 IDE connectors
- 1 floppy connector
- 1 20-pin ATX power connector
- 1 4-pin ATX 12V power connector
- 1 Wake-On-LAN connector
- 1 front panel connector
- 3 fan connectors

#### EXPANSION SLOTS

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

#### COMPATIBILITY

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

#### PCB

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

#### REAR PANEL I/O PORTS

