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HP and Compaq Desktop PCs - Motherboard Specifications, A8MN-BR (Hematite)

Figure 1: The A8MN-BR (Hematite) motherboard

Motherboard description

- Manufacturer's motherboard name: Asus A8MN-BR
- HP/Compaq name: Hematite-GL8E

Form Factor

- Micro-ATX: 17.3 cm (6.8 inches) x 17.0 cm (6.7 inches)

Chipset

- NVIDIA GeForce 6150 LE

Front-side bus speed

- 2000MT/s (2.0 GT/s)

Processor upgrade information

Socket type: AM2

TDP: 35 watt

Motherboard supports the following processor upgrades:

- Athlon64 X2 4200+, 35W maximum TDP
- Athlon 64
- Sempron

Memory upgrade information

- Dual-channel memory architecture
- 2 x 240-pin DIMM sockets support unbuffered non-ECC 533 MHZ DDR2 memory modules
- Maximum HP/Compaq approved memory is 2 GB

Video

Integrated Graphics

*Integrated video is not available if a graphics card is installed.

Audio

Integrated Realtek ALC888 Audio

*Integrated audio is not available if a sound card is installed.

- Built-in Azalia 8 channel audio
- Realtek ALC888 8-channel High Definition Audio CODEC

Network

LAN: 10-Base-T

- Interface: Integrated into motherboard
- Technology: Realtek RTL8201CL
- Data transfer speeds: up to 10/100 Mb/s
- Transmission standards: 10-Base-T Ethernet

Expansion Slots

- One PCI Express x16

I/O Ports

Back I/O ports

Figure 2: Back I/O panel

1 - PS/2 mouse (green)

2 - SPDIF coaxial out

3 - IEEE 1394

4 - RJ-45 Network (LAN)

5 - Audio: Rear Speaker Out (black)

6 - Audio: Center/Subwoofer (yellow orange)

7 - Audio: Line In (light blue)

8 - Audio: Line Out (lime)

9 - Audio: Microphone (pink)

10 - Audio: Side Speaker Out (gray)

11 - USB 2.0: 4

12 - Video Graphics Adapter

13 - Coaxial SPDIF Out

14 - S-Video

15 - PS/2 keyboard (purple)

Internal Connectors

- One 24-pin ATX power connector

- One Parallel ATA connector

- Two Serial ATA connectors

- One PC fan connector

- One 9-pin header for power button, reset button, power LED, and HDD LED

- One 9-pin audio header for headphone-out and microphone-in

- One 3-pin header for SPDIF output

- Two USB 2.0 headers supporting 4 USB ports or devices

Motherboard layout

Figure 3: layout

Clearing the BIOS settings

CAUTION: Do not change any jumper setting while the computer is on. Damage to the motherboard can result.

The motherboard includes jumper instructions which are printed on the circuit board.

This motherboard has jumpers to:

Clear the Real Time Clock (RTC) RAM in CMOS.

Clearing CMOS

To clear CMOS, follow these steps:

1. Temporarily set jumper CLRTC to pins 1-2.

2. Wait 5-10 seconds and then return the jumper to pins 2-3.

   When you start the system you will need to enter BIOS setup to reset any custom BIOS settings.

Clearing the BIOS password

The BIOS password is used to protect BIOS settings from unwanted changes. If you have forgotten your password you may disable password checking.

To erase the BIOS password checking:

1. Turn OFF the computer and unplug the power cord.

2. Locate the jumper labeled Clear P.W.

3. Move the jumper cap on jumper CLR_P.W. to pins 1-2.

4. Plug the power cord and turn ON the computer.

5. Hold down the `F1` key during the start process and enter BIOS setup to change or clear the password.

6. After changing or clearing the BIOS passwords, remember to reset the jumper to pins 2-3.

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