



HP Customer Support

HP and Compaq Desktop PCs - Motherboard Specifications, M2N61-AR (Acacia)

Figure 1: The M2N61-AR (Acacia) motherboard



Motherboard description

- Motherboard name: M2N61-AR
- HP/Compaq name: Acacia-GL6E

Form Factor

- Mini-ITX: 19.05 cm (7.5 inches) X 17.27 cm (6.8 inches)

Chipset

- NVIDIA GeForce 6150SE nForce 430

Front-side bus speed

- 2000MT/s (2.0 GT/s)

Processor upgrade information



Motherboard supports the following processor upgrades:

- Athlon 64 X2 with Dual Core technology up to 65 Watt
- Athlon 64 up to 65 Watt
- Sempron up to 65 Watt

Memory upgrade information



- Dual channel memory architecture (1 DIMM per channel)
- Two 240-pin DDR2 DIMM sockets
- Supported DIMM types:
 - PC2-4200 (533 MHz)
 - PC2-5300 (667 MHz)
 - PC2-6400 (800 MHz)
- Single or double-sided DIMMs
- Non-ECC memory only, unbuffered
- Supports 2GB DDR2 DIMMs
- Supports up to 4 GB* (2 x 2 GB)

* 32 bit PCs cannot address a full 4.0 GB of memory.

Video



Integrated graphics using nVidia GeForce 6150SE



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

- Integrated graphics using nVidia GeForce 6150SE
- Up to 256MB (with 512MB or more system memory)

Audio



Integrated Realtek ALC888S Audio



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

- Audio CODEC: ALC888S
 - 6 channel high-definition audio
-

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
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Expansion Slots



- One PCI Express x16
 - One PCI
-

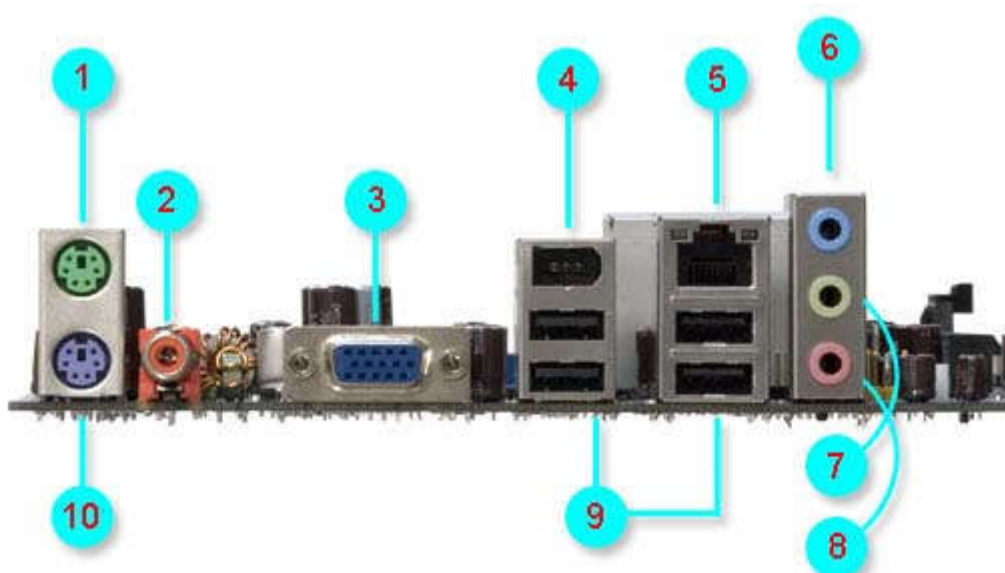
I/O Ports



Back I/O ports



Figure 2: Back I/O panel



1. PS/2 mouse (green)
2. Coaxial SPDIF Out port (orange)
3. Video Graphics Adapter
4. IEEE 1394a
5. RJ-45 Network (LAN)
6. Audio: Line In (light blue)

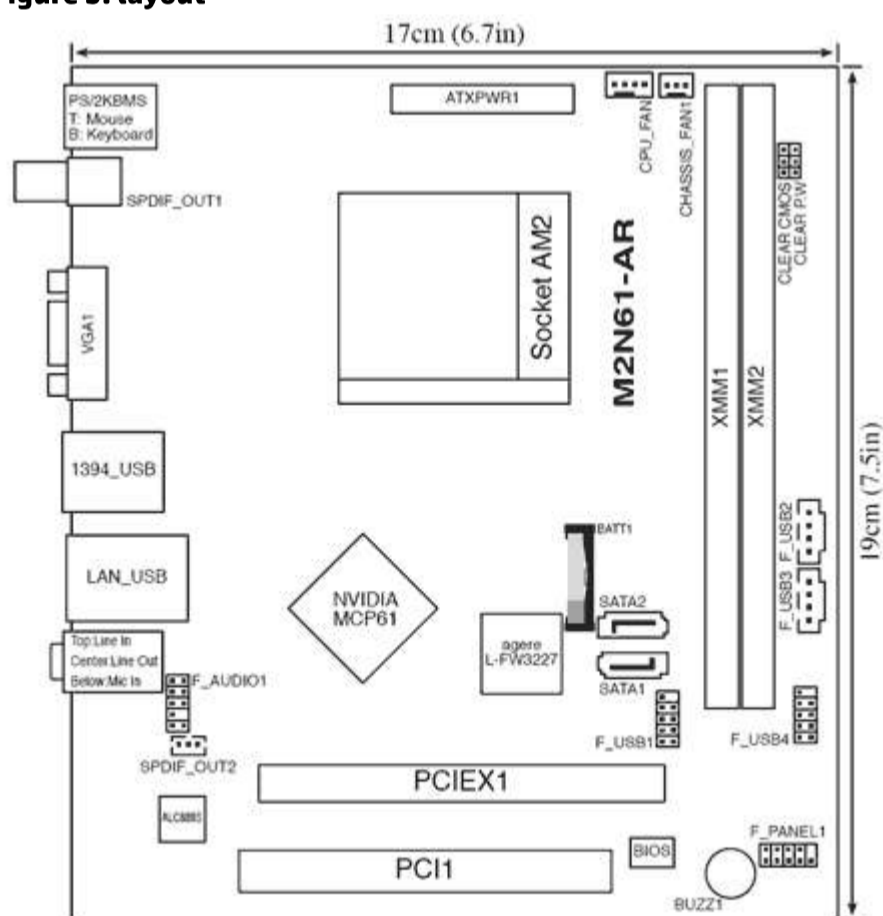
- 7. Audio: Line Out (lime)
- 8. Audio: Microphone port
- 9. USB 2.0 ports 1, 2, 3, and 4
- 10. PS/2 keyboard (purple)

Internal Connectors

- One 2 x 12 mini power connector
- Two SATA connectors
- One 4-pin 12v PC fan connector
- One 9-pin header for power button, reset button, power LED, and HDD LED
- One SPDIF digital audio output connector
- One 9-pin audio header for headphone-out (yellow, Vista capable, requires matching front audio jack, no mic-in support)
- Three USB 2.0 headers supporting 6 USB ports
- One jumper for resetting BIOS settings
- One jumper to disable BIOS password checking

Motherboard layout

Figure 3: layout



Clearing the BIOS settings

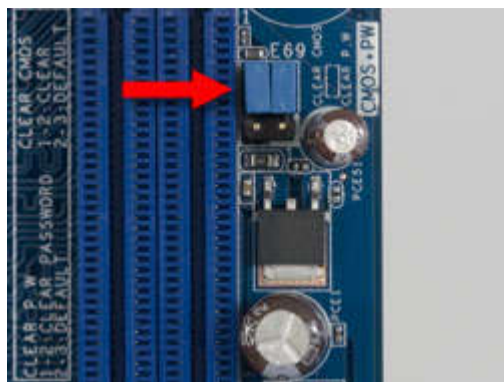
⚠ CAUTION:

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

This motherboard has jumpers to clear the Real Time Clock (RTC) RAM in CMOS.

🔔 NOTE:

On certain case designs the jumpers may be difficult to access. It may be easier to remove the CMOS battery to clear the BIOS settings.



Clearing CMOS

-

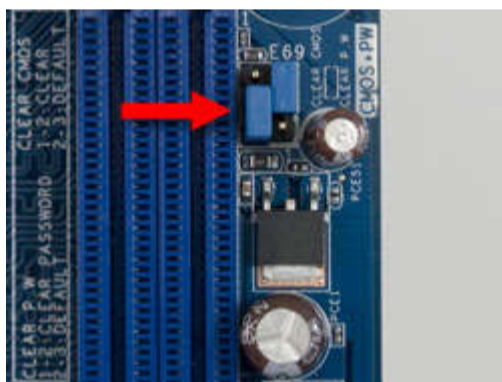
To clear CMOS, follow these steps:

⚠ CAUTION:

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

On certain case designs the jumpers may be difficult to access. It may be easier to remove the CMOS battery to clear the BIOS CMOS.

1. Temporarily set jumper CLEAR CMOS to pins 1-2.



2. Wait 5-10 seconds and then return the jumper to pins 2-3.
3. When you startup the PC you will need to enter BIOS setup to reset any custom BIOS settings.

Clearing the BIOS password settings

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

⚠ CAUTION:

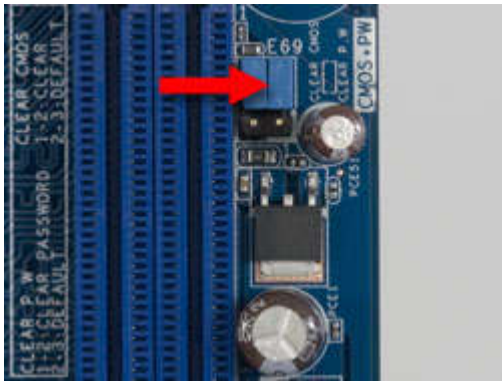
Do not change any jumper setting while the computer is on. Damage to the motherboard can result.

🔔 NOTE:

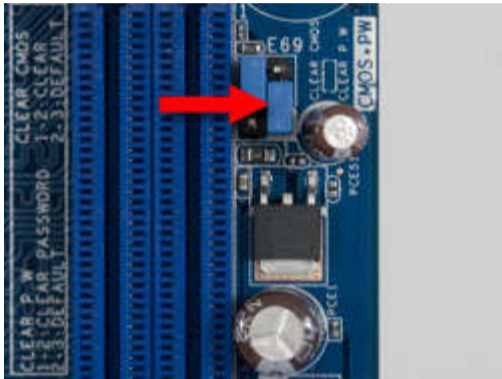
On certain case designs the jumpers may be difficult to access. It may be easier to remove the CMOS battery to clear the BIOS settings.

To erase the BIOS password follow these steps:

1. Turn OFF the computer and unplug the power cord.
2. Locate the jumper labeled CLEAR P.W.



3. Move the jumper on jumper CLEAR P.W. to pins 1-2.



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

5. Hold down the F10 key during the startup 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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