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HP and Compaq Desktop PCs - Motherboard Specifications, MCP61PM-HM (Nettle3)

Figure 1: The MCP61PM-HM (Nettle3) motherboard

Motherboard description   ⊟

- Manufacturer's motherboard name: ECS MCP61PM-HM

- HP/Compaq name: Nettle3-GL8E

Form Factor   ⊟

- Micro-ATX: 24.4 cm (9.6 inches) x 24.4 cm (9.6 inches)

Chipset   ⊟

- NVIDIA GeForce 6150SE nForce 430

Front-side bus speed   ⊟

- 2000MT/s (2.0 GT/s)

Processor upgrade information

Socket type: AM2+

Motherboard supports the following processor upgrades:

- Phenom with Quad Core (Agena) technology (AM2+) up to 9600 (up to 95 watt TDP)

- Athlon64 X2 with Dual Core technology up to 5600+ (up to 89 watt TDP)

- Athlon64 less than 4000+

- Sempron less than 3800+

Memory upgrade information

- Dual channel memory architecture

- Four 240-pin DDR2 DIMM sockets

- Supported DIMM types:

    - PC2-5300 (667 MHz)

    - PC2-6400 (800 MHz)

- Non-ECC memory only, unbuffered

- Supports 2GB DDR2 DIMMs

- Supports up to 8 GB on 64 bit PCs

- Supports up to 4 GB* on 32 bit PCs

    - 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

- Also supports PCI Express x16 graphics cards*

Audio

Integrated Realtek ALC888S Audio

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

- 8 channel high-definition audio

- Audio CODEC: ALC888S

Network $\quad\boxed{-}$

LAN: 10-Base-T $\quad\boxed{-}$

- Interface: Integrated into motherboard

- Technology: Realtek RTL8201N

- Data transfer speeds: up to 10/100Mb/s

- Transmission standards:10-Base-T Ethernet

Expansion Slots $\quad\boxed{-}$

- One PCI Express x16

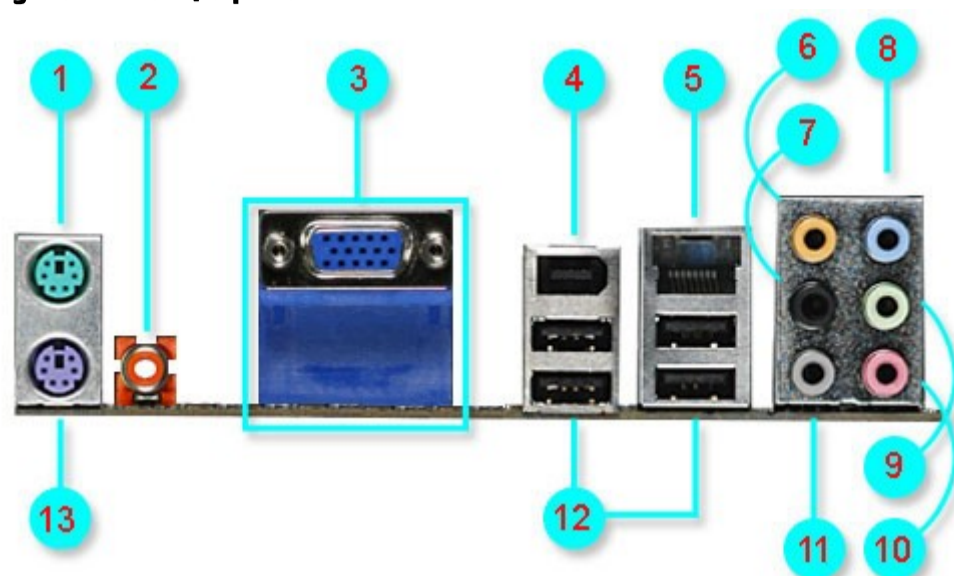- Two PCI Express x1

- One PCI

I/O Ports $\quad\boxed{-}$

Back I/O ports

Figure 2: Back I/O panel

1. PS/2 mouse (green)
2. SPDIF coaxial out
3. Video Graphics Adapter
4. IEEE 1394 port
5. RJ-45 Network (LAN)
6. Audio: Center/Subwoofer (yellow orange)
7. Audio: Rear Speaker Out (black)
8. Audio: Line In (light blue)
9. Audio: Line Out (lime)
10. Audio: Microphone (pink)
11. Audio: Side Speaker Out (gray)
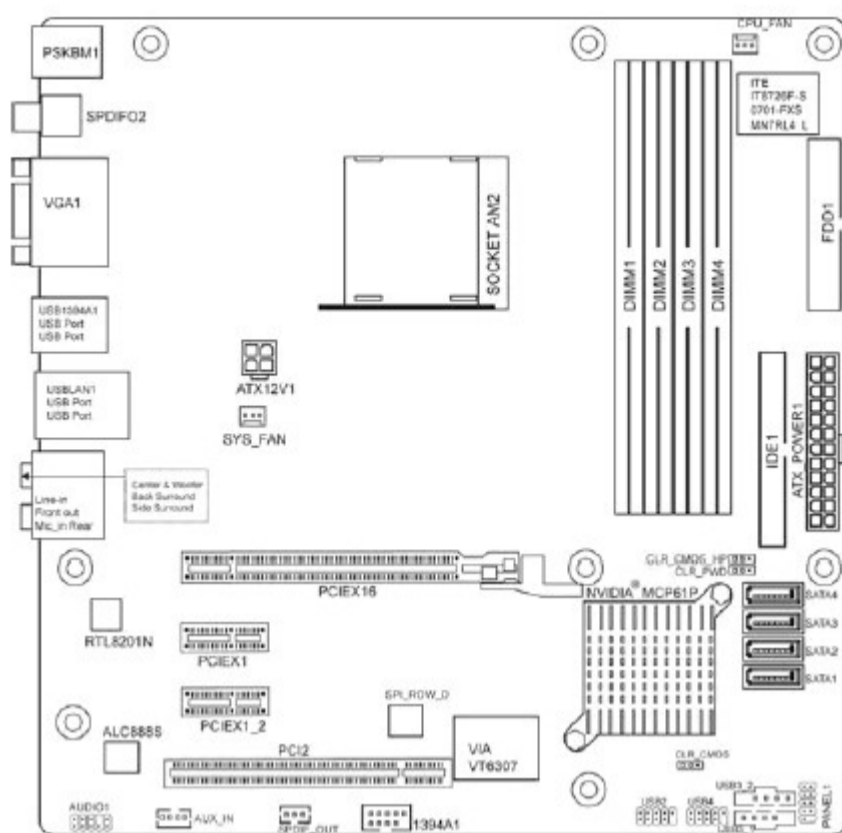12. USB 2.0: 4
13. PS/2 keyboard (purple)

Internal Connectors

- One 24-pin ATX power connector

- One 4-pin ATX power connector

- One PATA connector

- Four SATA connectors

- One floppy drive connector

- Two 12v fan connectors for CPU fan and PC fan

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

- One SPDIF digital audio output header

- One front line input connector (interrupts line input on back panel, Vista capable, requires matching front audio jack module)

- One 9-pin audio header for headphone-out and microphone-in (yellow, Vista capable, requires matching front audio jack module)

- Four USB headers supporting 6 additional USB 2.0 ports or devices

- One 1394a header

- One Intel high-definition Audio/Modem Link (not used by HP)

- One jumper for resetting BIOS settings

- One jumper to disable BIOS password checking

Motherboard layout

Figure 3: layout

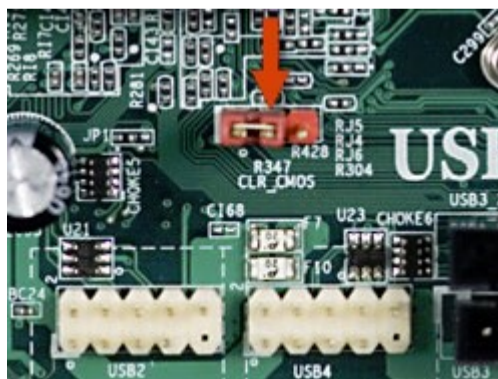
Clearing the BIOS settings

⚠ **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:**

There might be an additional jumper labeled "CLR_CMOS". This jumper should **NOT** be used.

Clearing CMOS

To clear CMOS, follow these steps:

1. Temporarily set jumper CLR_CMOS to pins 2-3.

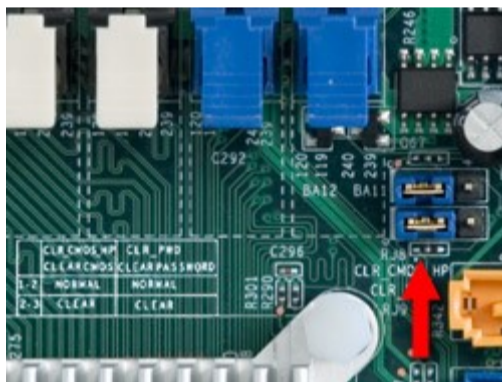2. Wait 5-10 seconds and then return the jumper to pins 1-2.

3. When you startup the PC 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 follow these steps:

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

2. Locate the jumper labeled CLR_PWD. The jumper is found near the DIMM slots and SATA connectors.

3. Move the jumper on jumper CLR_PWD to pins 2-3.

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 1-2.

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