



HP and Compaq Desktop PCs - Motherboard Specifications, MS-7174 (Graphite)

 [Motherboard specifications table](#)

 [Motherboard layout and photos](#)

 [Clearing the CMOS settings](#)

 [Clearing the BIOS password](#)

Motherboard specifications table

Part / Feature	Specification / Support
Motherboard description	<ul style="list-style-type: none">• Motherboard manufacturer's name: MSI MS-7174• HP/Compaq name: Graphite-GL8E
CPU/Processor	<ul style="list-style-type: none">• Socket: 775• Supports the following processors<ul style="list-style-type: none">• Pentium 4 Prescott 3XX, 5XX• All Celeron D• Intel Pentium 4 LGA-775 HT (Prescott) processor support



Part / Feature	Specification / Support
Front-side bus (FSB)	<ul style="list-style-type: none">• 800 MHz (Pentium)• 533 MHz (Celeron D)
Chipset	<ul style="list-style-type: none">• Northbridge: i915GV• Southbridge: ICH6
BIOS features	<ul style="list-style-type: none">• The main board BIOS provides “Plug & Play” BIOS which detects the peripheral devices and expansion cards of the board automatically.• The main board provides a Desktop Management Interface (DMI) function which records your main board specifications.
Form factor	<ul style="list-style-type: none">• Micro-ATX form factor: 9.6 in x 9.6 in
Memory	<ul style="list-style-type: none">• Dual-channel memory architecture• 2 x 240-pin DDR2 DIMM sockets for up to 2 GB non-ECC DDR2 533/400 SDRAM• Maximum HP/Compaq approved memory is 2 GB
Expansion slots	<ul style="list-style-type: none">• Three PCI
Video graphics	<ul style="list-style-type: none">• Integrated
Serial ATA	<ul style="list-style-type: none">• 2 SATA connectors• Each connector supports 1 serial ATA-150 disk drive





Part / Feature	Specification / Support
Internal connectors	<ul style="list-style-type: none">• One 24-pin ATX power connector• One 4-pin 12V ATX power connector• One IDE connector• Two SATA connectors• One floppy drive connector• CPU fan connector• PC fan connector (also known as duct or chassis fan)• PC indicator LEDs / power switch / reset button connector• Optical drive audio input• Auxiliary audio input (may be used for line input)• Front panel headphone and microphone connector• Two USB headers supporting up to 4 additional ports or devices• One IEEE 1394a header supporting one 1394a port

NOTE: Motherboard specifications are subject to change without notice.

Motherboard layout and photos

Figure 1: layout



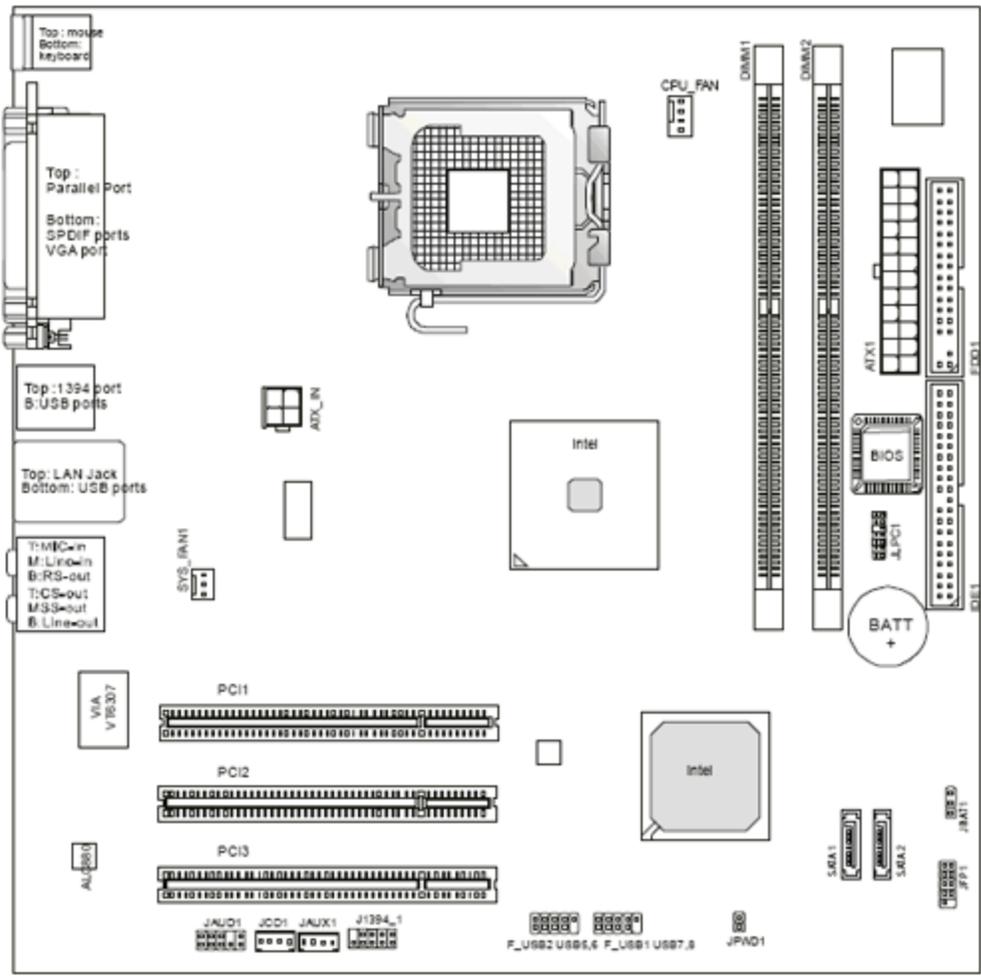


Figure 2: Photograph



10. Side Surround Out.

11. USB 2.0 ports. The main board provides an OHCI (Open Host Controller Interface) Universal Serial Bus root for attaching USB devices such as keyboard, mouse or other USB compatible devices. You can plug the USB device directly into the connector..

12. VGA Port. The main board provides a DB 15-pin female connector to connect a VGA monitor.

13. SPDIF out.

14. SPDIF in.

15. PS/2 keyboard port. This port is for a PS/2 keyboard.

Clearing the CMOS settings

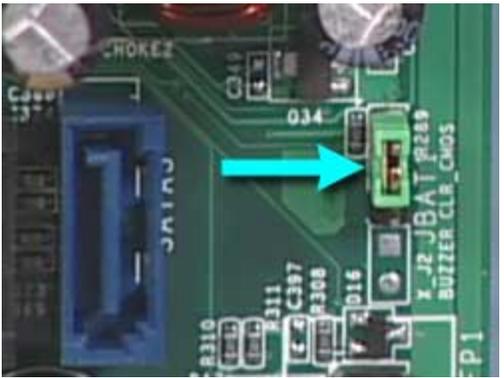
⚠ CAUTION: Do not change any jumper setting while the computer is on. Damage to the motherboard can result.

Clear RTC RAM (3-pin CLRRTC)

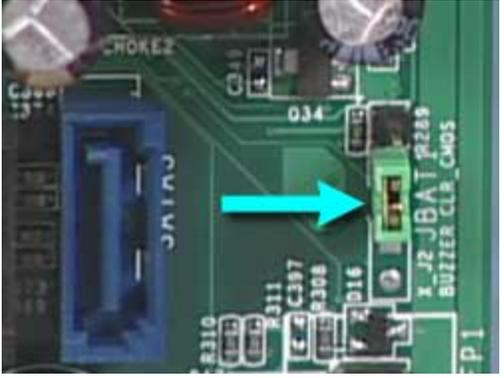
There is a CMOS RAM on board that has a power supply from an external battery to keep the PC configuration data. With the CMOS RAM, the PC can automatically start OS every time it is turned on. If you want to clear the PC configuration, use the JBAT1 (Clear CMOS Jumper) to clear data. Follow the instructions below to clear the data.

1. To clear CMOS settings, set jumper JBAT1 to pins 2-3.

Warning: Do NOT start the PC with this jumper set to pins 2-3.



2. Wait 10 seconds and then return the jumper to pins 1-2. You may now restart the PC.



⚠ CAUTION: Except when clearing the RTC RAM, never remove the jumper from the default position. Removing the jumper causes PC start failure!

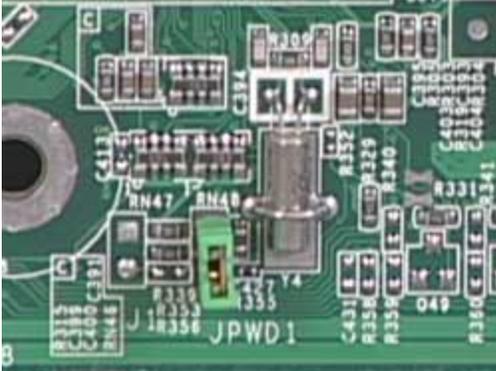
Clearing the BIOS password



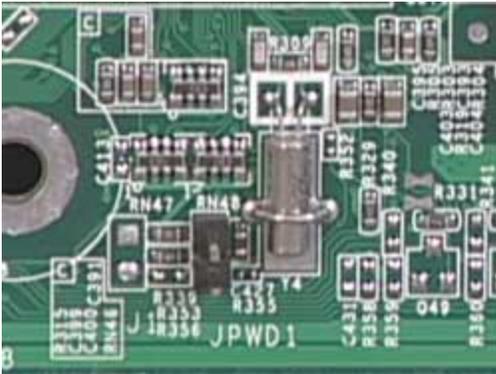
This motherboard has a jumper to disable password checking if you've forgotten it.

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

1. To disable BIOS password checking, remove the jumper JPWD1. You may now start the computer, enter BIOS setup, and change or erase the password.



2. To enable BIOS password checking, replace the jumper on pins 1-2.



⚠ CAUTION: Except when clearing the RTC RAM, never remove the jumper from the default position. Removing the jumper causes PC start failure!

