# Motherboard Specification: MSI MS-7548 (Aspen)

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The following info is from: **Source bizsupport1.austin.hp.com**



HP Support document



Figure 1: The MSI MS-7548 (Aspen) motherboard

## Motherboard description

Manufacturer's motherboard name: MSI MS-7548

HP/Compaq name: Aspen-GL8E

## Form Factor

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

## Chipset

AMD 780G

## Front-side bus speed

Up to 5200MT/s (5.2 GT/s) when using compatible AM2+ or AM3 processor

## Processor upgrade information

```
Motherboard supports the following processor upgrades:

    • Athlon X2 BE-2xxx (Brisbane) (AM2)
    • Athlon 64 X2 up to 6000+ with Dual Core (Brisbane) technology (AM2)
    • Athlon 64 X2 up to 6000+ with Dual Core (Winsor) technology (AM2)
    • AMD Phenom Triple-Core (Toliman) up to 8xxx series (AM2+)
    • AMD Phenom Quad-Core (Agena) up to 9950, (AM2+)
```

## Memory upgrade information

```
    • Dual channel memory architecture
    • Four DDR2 SO-DIMM (240-pin) sockets
    • Supported DIMM types:
        PC2-6400 (800 MHz)
        PC2-5300 (667 MHz)
    • Non-ECC memory only, unbuffered
    • Supports 4GB DDR2 DIMMs
    • Supports up to 16 GB on 64-bit PCs
    • Supports up to 4 GB* on 32-bit PCs

        NOTE: *Actual available memory may be less
```

## Video

### Integrated graphics using ATI Radeon™ HD 3200 (Supports DirectX® 10)

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

```
    • Integrated graphics using ATI Radeon™ HD 3200 (Supports DirectX® 10)
    • Supports concurrent use of dual displays connected to onboard DVI-D and VGA connectors.
    • Also supports PCI Express x16 graphics cards as independent graphics adapters.*
```

## Audio

### Integrated Realtek ALC888S Audio

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

    • Audio CODEC: Realtek ALC888S
    • High Definition 8 channel audio
    • Supports one S/PDIF digital connection
```

## Network

### LAN: 10-Base-T

```
    • Interface: Integrated into motherboard
    • Technology: Realtek RTL8111C
    • Data transfer speeds: up to 10/100 Mb/s
    • Transmission standards: 10-Base-T Ethernet
```

## Expansion Slots

```
    • One PCI Express x16
    • Three PCI Express x1
```
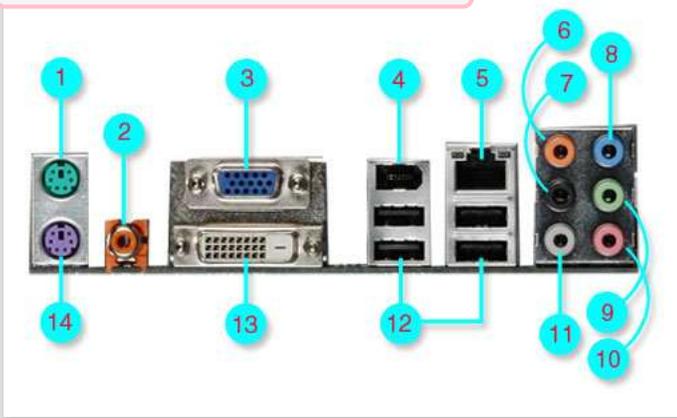
## I/O Ports

### Back I/O ports

Figure 2: Back I/O panel

```
1 - PS/2 mouse (green)
2 - S/PDIF coaxial out
3 - Video Graphics Adapter p
4 - IEEE 1394 (FireWire)
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 - DVI
14 - PS/2 keyboard (purple)
```

## Internal Connectors

- One 24-pin ATX power connector
- One 4-pin ATX power connector
- Six SATA connectors
- One floppy drive connector
- Two 12V fan connectors for CPU fan and chassis fan
- One 9-pin header for power button, reset button, power LED, and HDD LED
- One S/PDIF digital audio output header
- One front line input connector
- One 9-pin audio header for headphone-out and microphone-in (yellow, Vista capable, requires matching front
- 6 USB 2.0 headers
- One 1394a header
- One SPI (ROM programming) connector
- One jumper for resetting BIOS settings
- One jumper to disable BIOS password checking
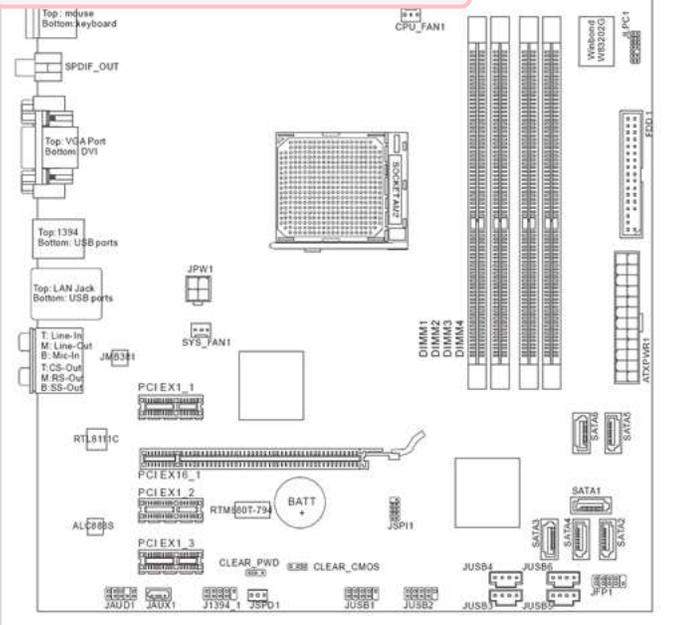
## Motherboard layout

Figure 3: layout

# Clearing the CMOS settings

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

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



To clear CMOS, follow these steps:

- (1) Temporarily set jumper CLEAR_CMOS to pins 2-3
- (2) Wait 5-10 seconds and then return the jumper to pins 1-2.



- (3) When you start 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.

eps:

- (1) Turn OFF the computer and unplug the power cord.
- (2) Locate the jumper labeled CLEAR_PWD.



- (3) Move the jumper CLEAR_PW to pins 2-3.



- (4) Plug in 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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