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HP and Compaq Desktop PCs - Motherboard Specifications, PTGD1-LA (Goldfish)

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- Motherboard specifications table
- Motherboard layout and photos
- Clearing the CMOS settings
- Clearing the BIOS password

Motherboard specifications table

Part / Feature	Specification / Support
Motherboard description	- Motherboard manufacturer's name: ASUS PTGD1-LA - HP/Compaq name: Goldfish-GL8E
CPU/Processor	- Socket: LGA775 - Supports processor up to 3.8 GHz - Supports Intel Pentium 4 HT processors
Front-side bus (FSB)	800 MHz
Chipset	- Northbridge: i915G graphics and memory controller hub - Southbridge: ICH6 Intel I/O Controller Hub 5
BIOS features	4Mb FWH EEPROM - HP BIOS with Enhanced ACPI, DMI, Green, PnP Features Plus
Form factor	Micro-ATX form factor, 9.6 in x 9.6 in
Memory	- Four 184 pins DIMM sockets support up to 4GB non-ECC 2.6V DDR SDRAM (Register DIMMsis not supported) - Supports PC 2100 (266 MHz), PC 2700 (333 MHz) or PC 3200 (400 MHz) DDR-DIMMS - Maximum HP/Compaq approved memory is 4 GB* **NOTE:** *Actual available memory may be less
Expansion slots	- Three PCI - No AGP slot
Video graphics	Integrated
Serial ATA	4 SATA connectors

	• Each connector supports 1 serial Ultra DMA 150 disk drive • Hot Swap function
Onboard audio or audio card	Integrated Intel High Definition(TM) audio (Azalia) • Realtek ALC 880 chipset • THX certification support • 8-channels for Full Dolby 5.1/6.1/7.1 surround sound support with Dolby Pro Logic IIx
Onboard LAN	• Realtek RTL8101L LAN PHY (Physical Layer Protocol) • 10/100 Mbps Fast Ethernet controller
Front panel I/0	• Two USB front panel (four ports) • One Audio • One IEEE 1394
Back panel I/O	• One PS/2 mouse port • One PS/2 keyboard port • One VGA (monitor) • One Parallel • Four USB (2.0) • One IEEE 1394 • One RJ45 networking port • Six audio ports support 8-channel audio configuration • One S/PDIF in • One S/PDIF out
Other onboard connectors	• One ATX power connector • One ATX +12v power connector • One CPU fan connector • One System fan connector • One Jumper to clear CMOS • One Optical drive audio input • One Auxiliary audio input • Front panel power and LED connectors • Front panel audio connectors

NOTE: Motherboard specifications are subject to change without notice.
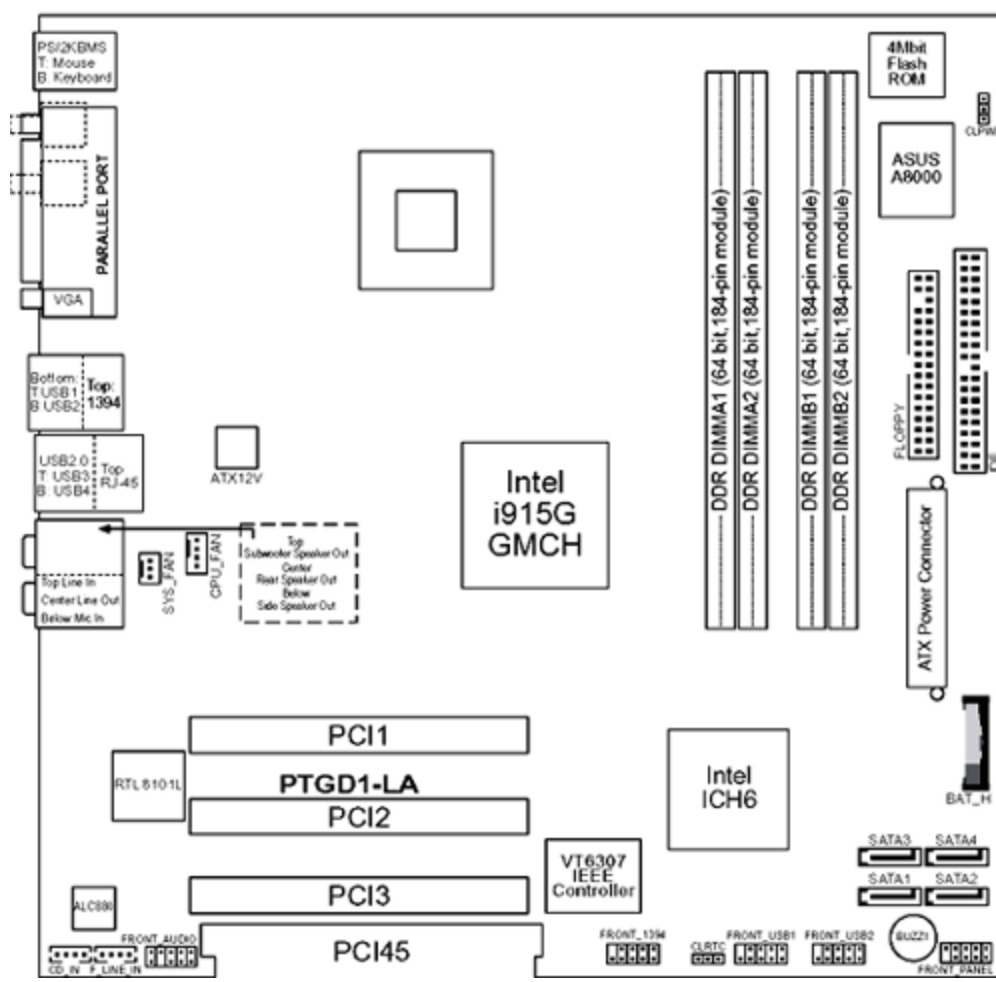
Motherboard layout and photos
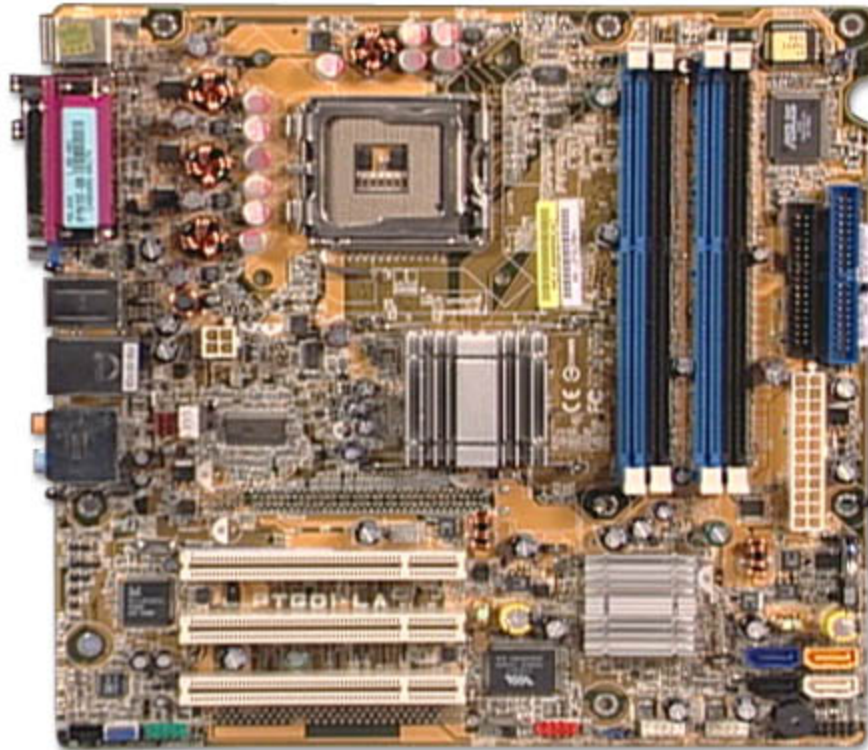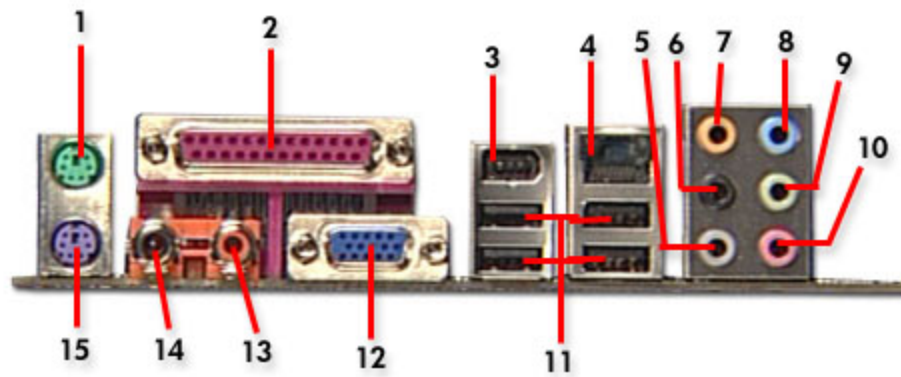
Figure 1: Layout

Figure 2: Photograph

Figure 3: Backplate

1 - PS/2 mouse port

2 - Parallel port

3 - IEEE 1394 port

4 - RJ-45 port

5 - Side Speaker Out port. This Side Speaker out (gray) port connects to the side speakers in an 8-channel audio configuration

6 - Rear Speaker Out port. This Rear Speaker (black) port connects to the rear speakers on a 4-channel, 6-channel, or 8-channel audio configuration

7 - Center/Subwoofer port. This Center/Subwoofer (yellow orange) port connects to the center/subwoofer speakers

8 - Line In port. This Line In (light blue) port connects a tape player or other audio sources

9 - Line Out port. This Line Out (lime) port connects a headphone or a speaker. In 4-channel, 6-channel, and 8-channel mode, the function of this port becomes Front Speaker Out

10 - Microphone port

11 - USB 2.0 ports

12 - Video Graphics Adapter port. This 15-pin port is for a VGA monitor or other VGA-compatible devices

13 - S/PDIF Out port

14 - S/PDIF In port
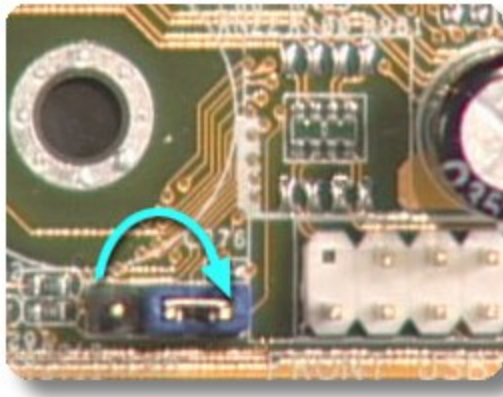
15 - PS/2 keyboard port

Clearing the CMOS settings

CAUTION: Do not change any jumper setting while the PC is running. Damage to the motherboard may result.

Clear RTC RAM (3-pin CLRTC)

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which includes system setup information.

1. Turn off the PC and unplug the power cord.

2. Move the CLRTC jumper cap from pins 1-2 (Normal) to pins 2-3 (Clear CMOS). Keep the cap on pins 2-3 for about 10 seconds, then move the cap back to pins 1-2.

3. Plug the power cord and turn **on** the PC.

CAUTION: Except when clearing the RTC RAM, never remove the cap from the default position. Removing the cap causes system boot failure!
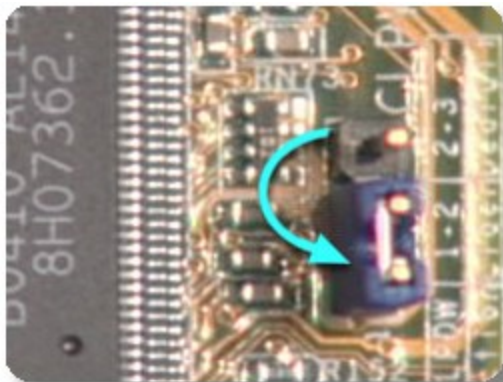

CLRTC

1 - Normal (default)

2 - Clear CMOS

Clearing the BIOS password

The BIOS password protects the BIOS from undesired changes. If password checking is enabled, and you need to disable it, use the following steps:

CAUTION: Do not change any jumper setting while the PC is running. Damage to the motherboard may result.

1. Turn off the PC and unplug the power cord.

2. Move the CLPWD jumper cap from pins 2-3 (Normal) to pins 1-2. Keep the cap on pins 1-2 for about 10 seconds, then move the cap back to pins 2-3.

3. Plug the power cord and turn **on** the PC.

CAUTION: Except when clearing the RTC RAM, never remove the cap from the default position.

Removing the cap causes system boot failure!

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