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

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Motherboard specifications table

Part / Feature	Specification / Support
Motherboard description	Motherboard: ASUS PTGD1-LA HP/Compaq name: Puffer-UL8E
CPU/Processor	Socket LGA775 Supports Intel Pentium 4 processor up to 3.6 GHz Supports Intel Pentium 4 HT processors
Front-side bus (FSB)	800 MHz
Chipset	Northbridge Intel i915P graphics controller hub (GMCH Southbridge Intel ICH6
BIOS features	4Mb FWH EEPROM HP BIOS with enhanced ACPI, PnP, DMI, Green features
Form factor	Micro-ATX form factor 9.6 x 9.6 inches (24.5 x 24.5 cm)
Memory	Four 184-pin DDR DIMM sockets Supports PC3200 (400 MHz) /PC2700 (333 MHz) / PC2100 (266 MHz) DDR DIMM type Maximum HP/Compaq approved memory module is 1 GB Maximum HP/Compaq approved memory is 4 GB
Expansion slots	One PCI Express x16 graphics PEG slot Three PCI slots One PCI expansion slot (select models only) No AGP slot
Video graphics	Integrated
Serial ATA	Two serial ATA (SATA) connectors, each supporting two ports Hot swap function
Onboard audio	RealTek ALC650 8-channel audio with Intel High Definition Audio CODEC

	Realtek audio CODEC ALC880
Onboard LAN	Realtek RTL8101L LAN PHY (Physical Layer Protocol) 10/100 Mbps Fast Ethernet controller
Back panel I/O	One parallel port (ECP, EPP) One video (VGA) port One PS/2 keyboard One PS/2 mouse port One RJ-45 Fast Ethernet LAN port One IEEE 1394 port Two USB connectors supporting up to four USB 2.0 ports with hot-plug function Six audio ports support up to 8 audio channels: • Side speaker out • Rear speaker out • Center/subwoofer • Line in • Line out • Microphone
Front panel I/0	Two USB connectors supporting four additional USB 2.0 ports on the front panel Front panel microphone input connector Front panel headphone output connector Front panel IEEE 1394 connector supporting one 1394 port
Other onboard connectors	Front panel power and LED connectors ATX +12 volt power connector CPU fan connector System fan connector Jumper to clear CMOS Optical drive audio connector Auxiliary audio connectors

NOTE: Motherboard specifications are subject to change without notice.

Motherboard layout and photos

Figure 1: Layout

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» Was not helpful
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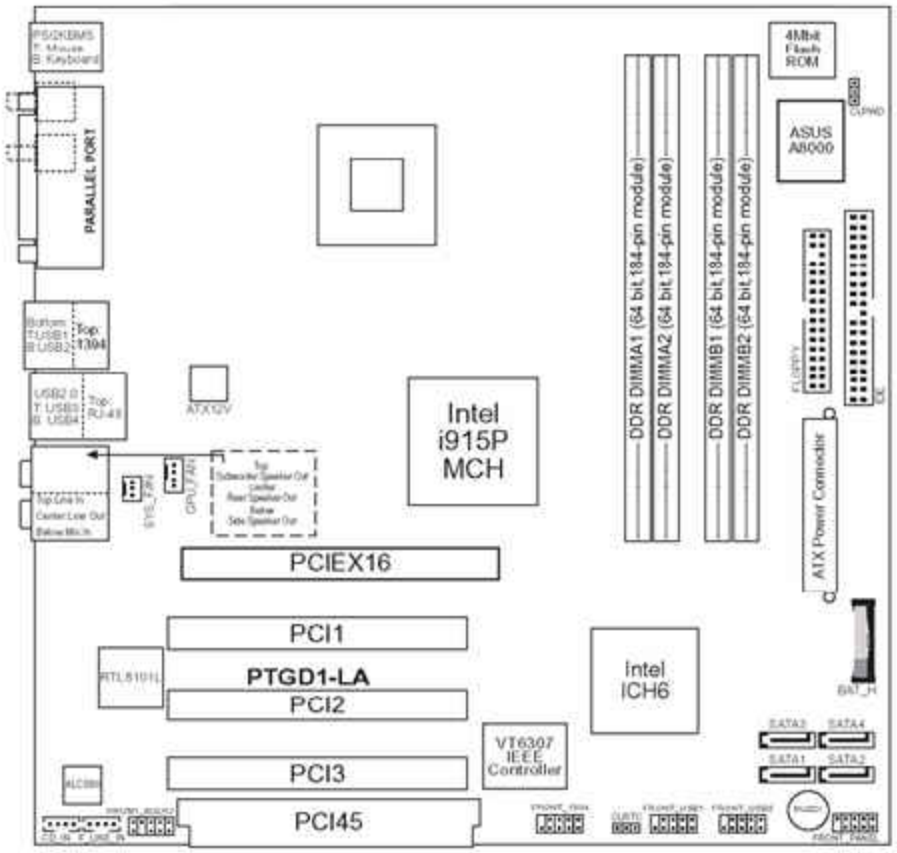


Figure 2: Photograph shown with a PCI extender board (available on select models only)

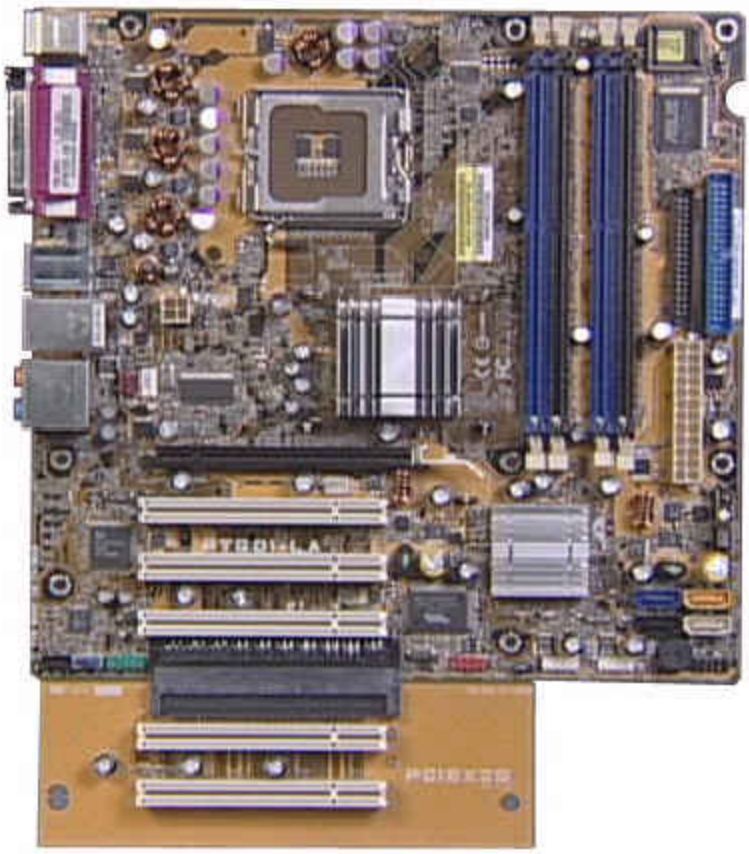
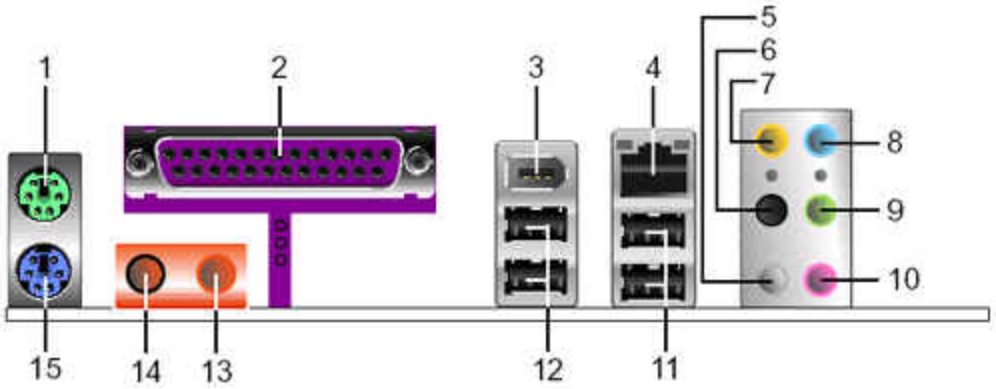


Figure 3: backplate



1. PS/2 mouse port
2. Parallel port
3. IEEE 1394 port
4. RJ-45 port
5. Side speaker out (gray) port (connects to the side speakers in an 8-channel audio configuration)
6. Rear speaker out (black) port (connects to the rear speakers on a 4-channel audio configuration)
7. Center/Subwoofer (yellow orange) port (connects to the center/subwoofer speakers)
8. Line in (light blue) port (connects a tape player or other audio sources)
9. Line out (lime) port (connects to 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 three and four
12. USB 2.0 ports one and two
13. S/PDIF Out port
14. S/PDIF In port
15. PS/2 keyboard port

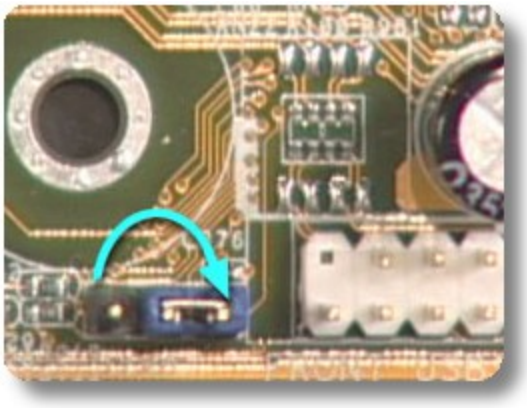
Clearing the CMOS settings

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

Clear RTC RAM (3-pin CLRTC)

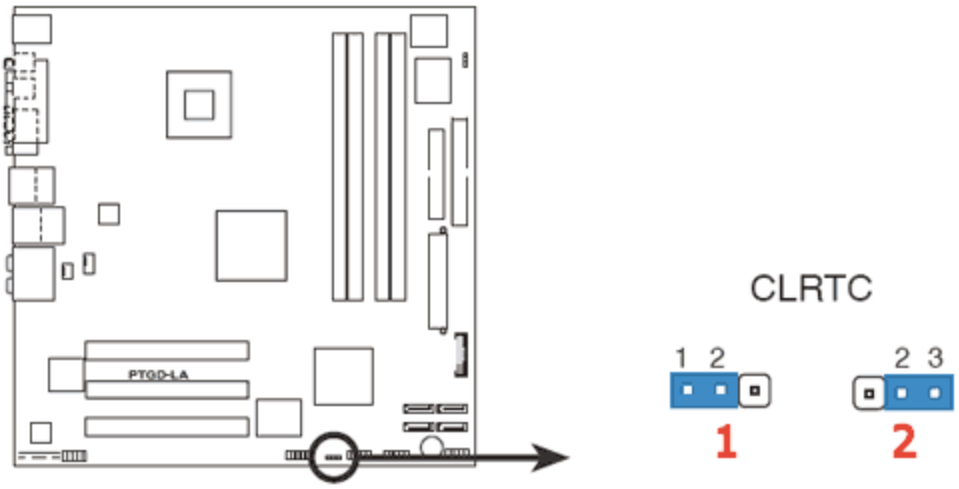
This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which includes system setup information.

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!



1 - Normal (default)

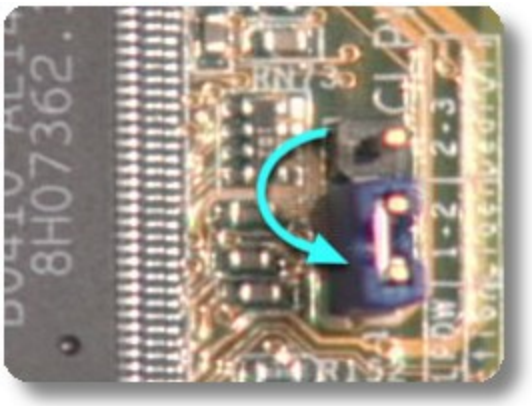
2 - Clear CMOS

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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