

## HP Consumer Support

# Motherboard Specifications, PTGD2-LA (Piranha)

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## Motherboard specifications table

Form factor	Micro-ATX
Processor brand	Intel Pentium 4
Processor socket type	775
Processor family	Intel Pentium 4 up to 3.6 GHz / Intel Pentium 4 HT
Processor front side bus frequency	800/533 MHz
Chipset name	Intel
Chipset "North Bridge"	Intel 915P
Chipset "South Bridge"	Intel ICH6
Memory type	DDR2 SDRAM
Memory speed	PC2 3200 / 4300 / 5300
Memory sockets	4 DDR DIMMs (240-pin)
Maximum memory	4 GB (4 x 1 GB)
SATA connectors	4 x Serial ATA (SATA) ports with hot-swap function
Graphics supplier	None
Graphics configuration	Up
Graphics connector (AGP)	None
Audio	Integrated Intel's High Definition Audio
Audio CODEC device	Realtek Audio CODEC ALC880
Audio jacks ( <a href="#">Legend below</a> )	M, LI, LO, Headphone connector, S/PDIF out , S/PDIF in, Side Speaker Out, Rear Speaker Out, Center/Subwoofer
Ethernet 10/100 LAN supplier	Realtek RTL8101L 10/100Mbps
Ethernet configuration	Integrated, Down
IEEE 1394 Front/Back options	1F + 1B
IDE UDMA modes	UltraDMA 100/66
Expansion slots (AGP/PCI/Exten)	<ul style="list-style-type: none"> <li>1 PCI Express x16 slot</li> <li>1 PCI Express x1 slot</li> </ul>

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Product (e.g. Deskjet D2680)

Question or keywords



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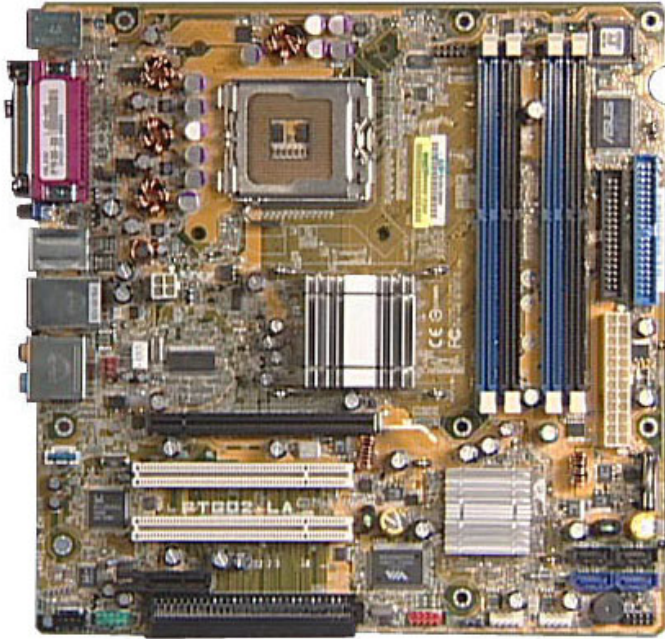


	<ul style="list-style-type: none"> <li>• 2 PCI slots</li> <li>• 1 PCI extender board slot</li> </ul>
USB ports	2.0
USB front/back options	Up to eight 2.0 (4F + 4B)
Serial, parallel, floppy, PS2 keyboard and mouse	No Series, one P, one F, two PS2 K+M
Available manufacturing options ( <a href="#">Legend below</a> )	ULE8

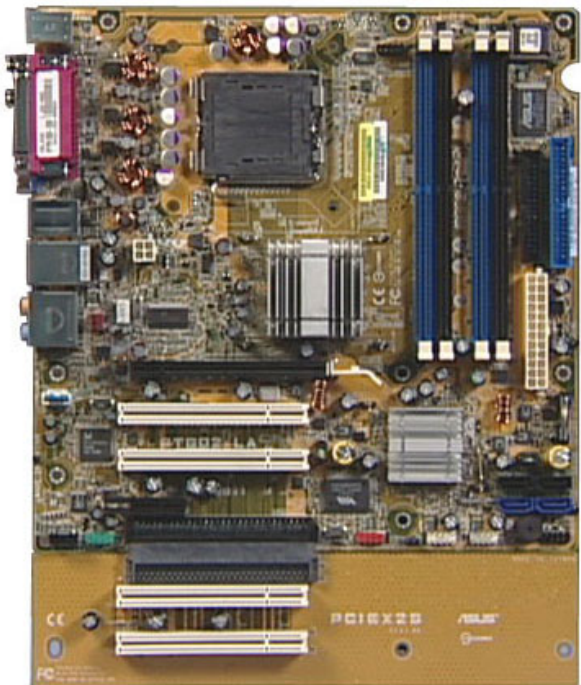
Manufacturing options Legend

Legend	Meaning
8	8-Channel audio
A	Audio integrated on motherboard
C	External L2 cache on motherboard
E	1394 on motherboard
G	Graphics integrated on motherboard or in chipset
L	LAN on motherboard (Ethernet) P - PCMCIA slot
LI	Line In
LO	Line out
M	Microphone
M/G	Midi/Game
S	S3 power management support
S/O	Speaker
T	TV-out on motherboard
U	Graphics card (Non integrated on motherboard)
W	Microsoft Windows XP hardware compliant

**Figure 1: Photo**

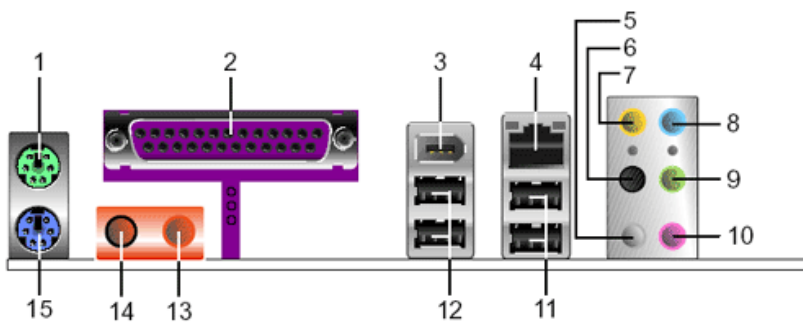


**Figure 2: With PCI extender**



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**Figure 3: View of back panel connectors**



**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 3 and 4**

**12 - USB 2.0 ports 1 and 2**

**13 - S/PDIF Out port**

**14 - S/PDIF In port**

**15 - PS/2 keyboard port**

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## Clearing the CMOS settings

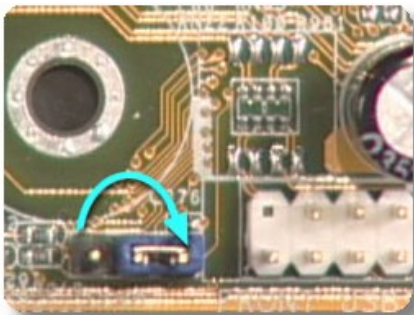


**CAUTION:** Do not change any jumper setting while the PC is running. Damage to the motherboard may result.

### 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.

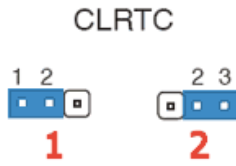
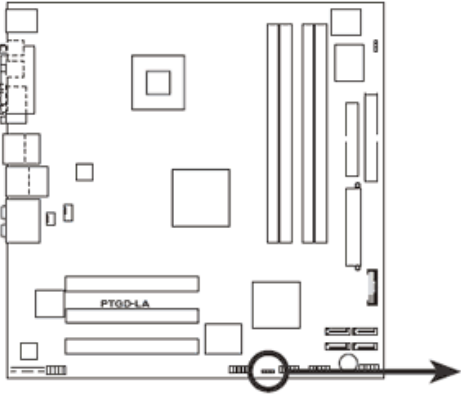
1. Turn off the PC and unplug the power cord.
2. Move the CLRTC jumper cap from pins 1-2 (Normal) to pins 2-3 (Clear CMOS). Keep the cap on pins 2-3 for about 10 seconds, then move the cap back to pins 1-2.



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**

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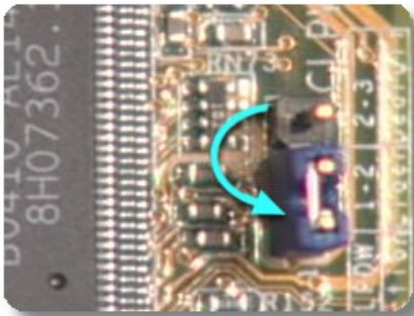
## Clearing the BIOS password

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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