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## HP Consumer Support

# Motherboard Specifications, PTGV-LA (Grafito)

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Question or keywords



## Motherboard specifications table

Part / Feature	Specification / Support
<b>Motherboard description</b>	<ul style="list-style-type: none"><li>Motherboard manufacturer's name: ASUS PTGV-LA</li><li>HP/Compaq name: Grafito-GL8E</li></ul>
<b>CPU/Processor</b>	<ul style="list-style-type: none"><li>Socket: 775</li><li>Supports the following processors<ul style="list-style-type: none"><li>Pentium 4 Prescott up to 519</li><li>Intel Pentium 4 LGA-775 HT Prescott processor support</li><li>Celeron D</li></ul></li></ul>
<b>Front-side bus (FSB)</b>	<ul style="list-style-type: none"><li>800 MHz (Pentiums)</li><li>533 MHz (Celeron D)</li></ul>
<b>Chipset</b>	<ul style="list-style-type: none"><li>Northbridge: i915GV</li><li>Southbridge: ICH6</li></ul>
<b>BIOS features</b>	<ul style="list-style-type: none"><li>4Mb FWH EEPROM</li><li>HP BIOS with Enhanced ACPI, DMI, Green, and PnP Features Plus</li></ul>
<b>Form factor</b>	<ul style="list-style-type: none"><li>Micro-ATX form factor: 9.6 in x 8.2 in</li></ul>
<b>Memory</b>	<ul style="list-style-type: none"><li>Dual-channel memory architecture</li></ul>

## Tips

**We are currently updating our customer support system and are unable to process your service order at this time. Please check back after September 14th (10:00 AM MT) for your order status.**

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## HP Support forums

Find solutions and collaborate with others on the HP Support Forum

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- 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

## Follow us



<b>Expansion slots</b>	<ul style="list-style-type: none"> <li>• Three PCI</li> </ul>
<b>Video graphics</b>	<ul style="list-style-type: none"> <li>• Integrated</li> </ul>
<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>• 2 SATA connectors</li> <li>• Each connector supports 1 serial ATA-150 disk drive</li> </ul>
<b>Onboard audio or audio card</b>	Realtek ALC880 8-channel High Definition Audio CODEC
<b>Onboard LAN</b>	<ul style="list-style-type: none"> <li>• Intel 82562GT</li> <li>• 10/100Mbps Fast Ethernet LAN controller</li> </ul>
<b>Back panel I/O</b>	<ul style="list-style-type: none"> <li>• One PS/2 mouse port</li> <li>• One PS/2 keyboard port</li> <li>• One VGA (monitor)</li> <li>• One Parallel</li> <li>• Four USB (2.0)</li> <li>• One IEEE 1394a</li> <li>• One RJ-45 networking port</li> <li>• Six audio ports support 8-channel Azalia audio codec</li> <li>• One S-video out</li> <li>• One S/PDIF out</li> </ul>
<b>Internal connectors</b>	<ul style="list-style-type: none"> <li>• One 24-pin ATX power connector</li> <li>• One 4-pin ATX 12 V power connector</li> <li>• One IDE connector</li> <li>• Two SATA connectors</li> <li>• One floppy drive connector</li> <li>• One CPU fan connector</li> <li>• One PC fan connector (also known as duct or chassis fan)</li> <li>• One PC indicator LEDs / power switch / reset button connector</li> <li>• Two internal audio input connectors</li> <li>• One front panel headphone connector</li> <li>• One front panel power and LED connectors</li> <li>• Two USB connectors supporting 4 additional USB 2.0 ports</li> <li>• One IEEE 1394a connector supporting one 1394a port</li> </ul>



NOTE: Motherboard specifications are subject to change without notice.

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# Motherboard layout and photos

Figure 1: layout

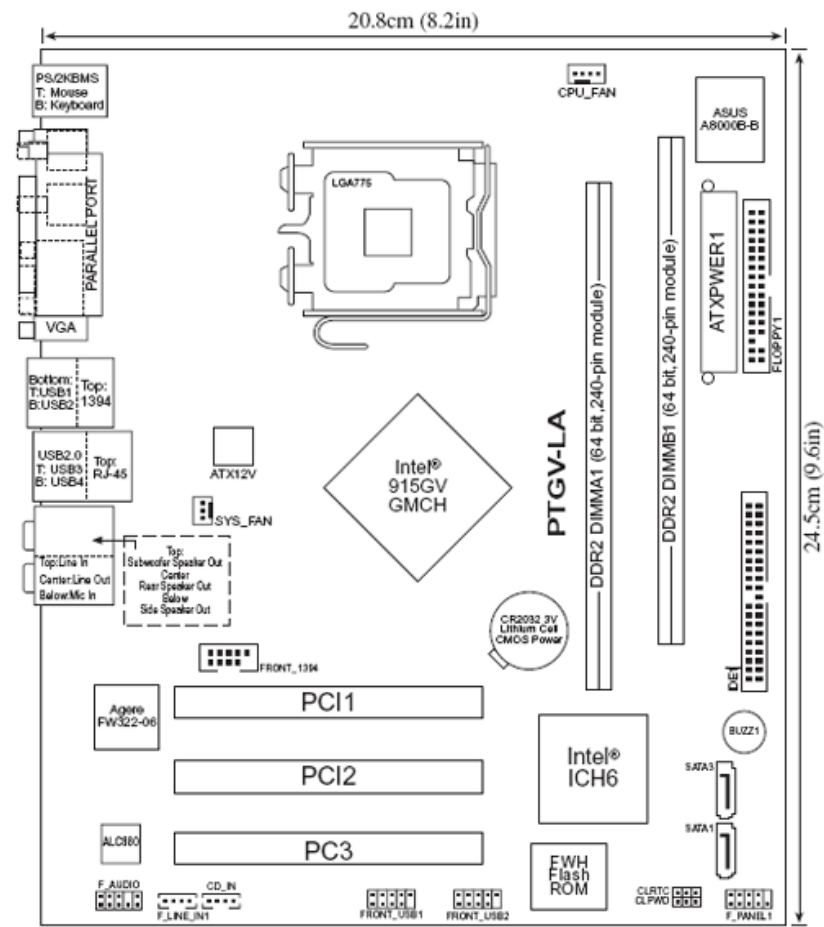


Figure 2: Photograph

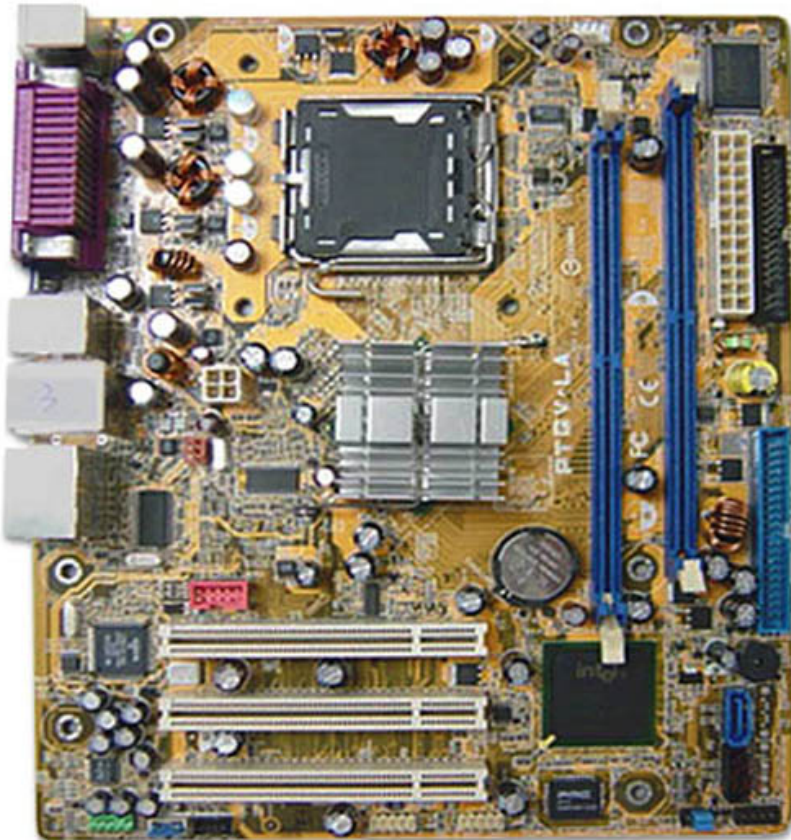
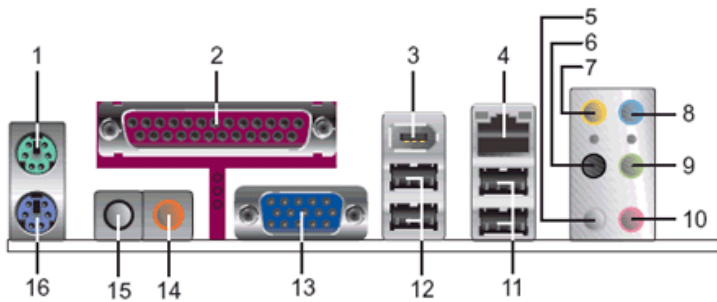


Figure 3: Backplate



**1 - PS/2 mouse port (green).** This port is for a PS/2 mouse.

**2 - Parallel port.** This 25-pin port connects a parallel printer, a scanner, or other devices.

**3 - IEEE 1394a port.** This 6-pin IEEE 1394a port provides high-speed connectivity for audio/video devices, storage peripherals, PCs, or portable devices.

**4 - LAN (RJ-45) port.** This port allows connection to a Local Area Network (LAN) through a network hub.

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

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

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

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

**9 - Line Out port (lime).** This 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 (pink).** This port connects a microphone.

**11 - USB 2.0 ports 3 and 4.** These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.

**12 - USB 2.0 ports 1 and 2.** These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.

**13 - VGA Graphic Adapter port.** This 15-pin port is for a VGA monitor or other VGA-compatible devices.

**14 - Coaxial SPDIF Out port.** This port connects an external audio output device via a coaxial SPDIF cable.

**15 - Coaxial SPDIF In port.** This port connects an external audio input device via a coaxial SPDIF cable.

**16 - PS/2 keyboard port (purple).** This port is for a PS/2 keyboard.

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## Clearing the CMOS settings



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

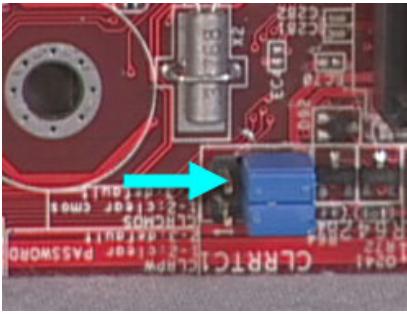
### Clear RTC RAM (3-pin CLRRTC)

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

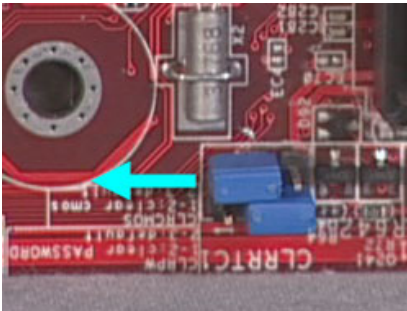
1. To clear CMOS settings, set jumper CLRTC to pins 2-3.



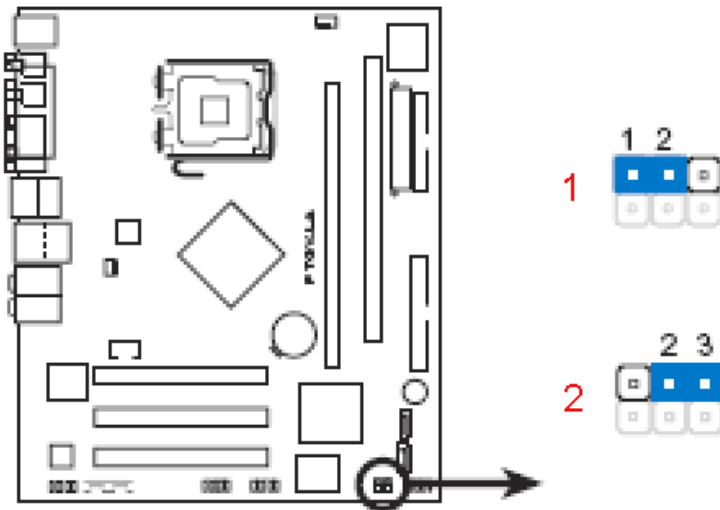
CAUTION: Do NOT start the PC with this jumper set to pins 2-3.



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 up failure!



1 - Normal (default)

2 - Clear CMOS

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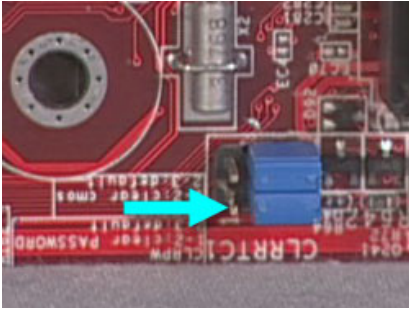
## Clearing the BIOS password

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

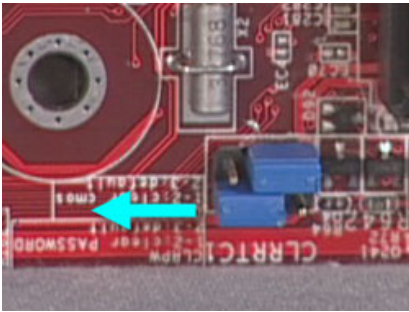


CAUTION: Do not change any jumper setting while the computer is on. Damage to the motherboard can result.

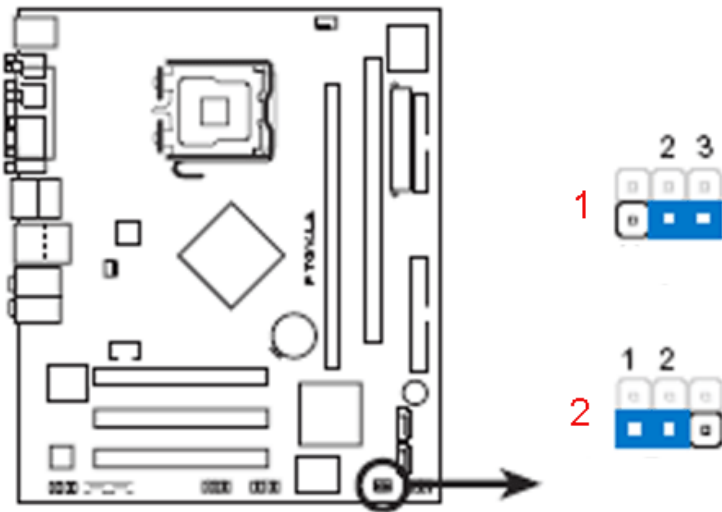
1. To disable BIOS password checking, remove the jumper JPWD1. You may now start the computer, enter BIOS setup, and change or erase the password.



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 up failure!



**1 - Normal (default)**

**2 - Clear CMOS**

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