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HP and Compaq Desktop PCs - Motherboard Specifications, PTGV-DM (Onyx2)

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Motherboard specifications table

| Part / Feature | Specification / Support |
|-------------------------|---|
| Motherboard description | <ul style="list-style-type: none"> • Motherboard manufacturer's name: ASUS PTGV-DM • HP/Compaq name: Onyx2-GL8E |
| CPU/Processor | <ul style="list-style-type: none"> • Socket: 479 • Supports the following processors: <ul style="list-style-type: none"> • Pentium M (Mobile) • Celeron M (Mobile) |
| Front-side bus (FSB) | <ul style="list-style-type: none"> • 400/533 MHz |
| Chipset | <ul style="list-style-type: none"> • Northbridge: i915GV • Southbridge: ICH6 |

| Part / Feature | Specification / Support |
|-----------------------------|---|
| BIOS features | <ul style="list-style-type: none"> • AMI 4Mb FWH EEPROM • HP BIOS with enhanced ACPI, DMI, Green, and PnP Features Plus |
| Form factor | <ul style="list-style-type: none"> • ATX form factor, 6.69 in x 6.69 in |
| Memory | <ul style="list-style-type: none"> • 2 x 240-pin DDR2 DIMM socket for up to 2 GB non-ECC DDR2 533/400 SDRAM • Maximum HP/Compaq approved memory is 2 GB |
| Expansion slots | <ul style="list-style-type: none"> • One PCI |
| Video graphics | <ul style="list-style-type: none"> • Integrated |
| Serial ATA | <ul style="list-style-type: none"> • 2 SATA connectors • Each connector supports 1 serial ATA-150 disk drive |
| Onboard audio or audio card | Realtek ALC880 8-channel High Definition Audio CODEC |
| Onboard LAN | <ul style="list-style-type: none"> • Intel 82562GT • 10/100 Mbps |

| Part / Feature | Specification / Support |
|---------------------|---|
| Back panel I/O | <ul style="list-style-type: none"> • PS/2 keyboard port (purple) • PS/2 mouse port (green) • One VGA (monitor) port • Four USB (2.0) ports • One IEEE 1394a port • One RJ-45 networking port • One SPDIF out port • Audio ports: <ul style="list-style-type: none"> • line in (light blue) • line out (lime) • microphone (pink) • side speaker out (gray) • rear speaker out (black) • center/subwoofer (yellow orange) |
| Internal connectors | <ul style="list-style-type: none"> • One 24-pin ATX "Micro-Fit" power connector • One IDE connector • Two SATA connectors • One CPU fan connector • One PC fan connector • One PC indicator LEDs / power switch / reset button connector • Front panel power and LED connectors • Two USB 2.0 connectors ports |

NOTE: Motherboard specifications are subject to change without notice.

Motherboard layout and photos

Figure 1: layout

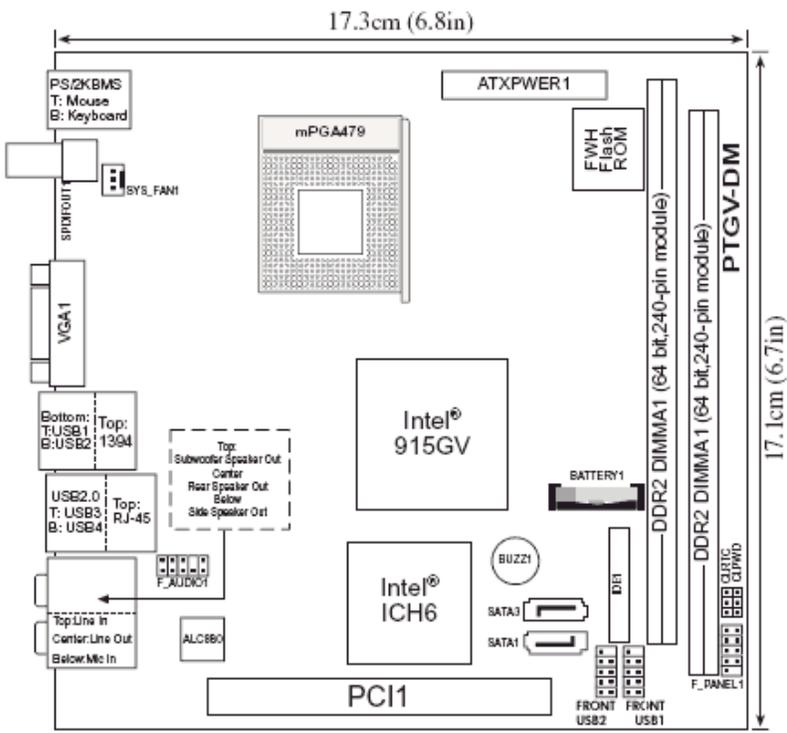


Figure 2: Photograph

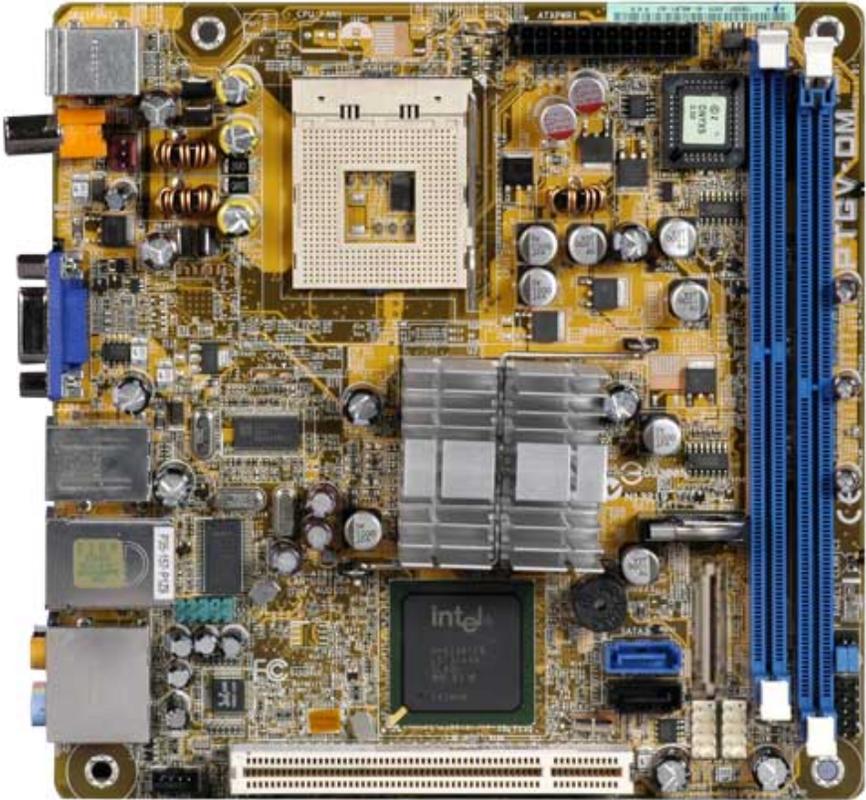
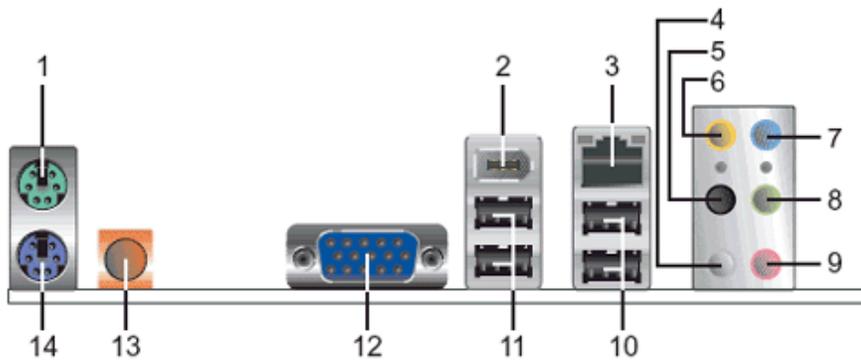


Figure 3: Backplate



1. PS/2 mouse port (green). This port is for a PS/2 mouse.
2. IEEE 1394a port. This 6-pin IEEE 1394a port provides high-speed connectivity for audio/video devices, storage peripherals, PCs, or portable devices.
3. LAN (RJ-45) port. This port allows connection to a Local Area Network (LAN) through a network hub.
4. Side Speaker Out port (gray). This port connects to the side speakers in an 8-channel audio configuration.
5. Rear Speaker Out port (black). This port connects to the rear speakers on a 4-channel, 6-channel, or 8-channel audio configuration.
6. Center/Subwoofer port (yellow orange). This port connects the center/subwoofer speakers.
7. Line In port (light blue). This port connects a tape, CD, DVD player or other audio sources.
8. 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.
9. Microphone port (pink). This port connects a microphone.
10. USB 2.0 ports 3 and 4. These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.
11. USB 2.0 ports 1 and 2. These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.
12. Video Graphics Adapter port. This 15-pin port is for a VGA monitor or other VGA-compatible devices.
13. Coaxial SPDIF Out port. This port connects an external audio output device via a coaxial SPDIF cable.
14. PS/2 keyboard port (purple). This port is for a PS/2 keyboard.

Clearing BIOS settings

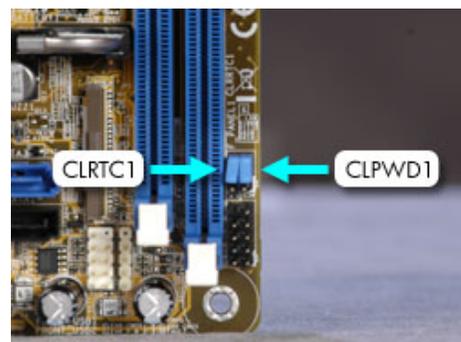
Resetting BIOS settings are done by moving a jumper onto a pair of pins on the motherboard. Use this section to clear settings for the CMOS RAM (sometimes referred to as Real Time Clock or RTC) or the BIOS password.

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

This motherboard has jumpers to:

1. Clear the Real Time Clock (RTC) RAM in CMOS.
2. Disable password checking.

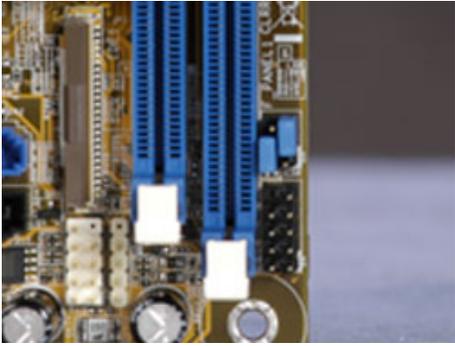
Figure 4: Jumper locations



Clearing CMOS

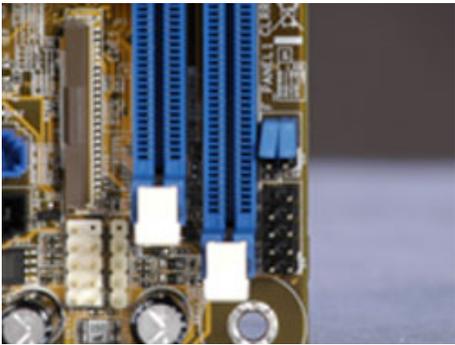
To clear CMOS, follow these steps:

1. Set jumper CLRTC1 to pins 1-2.



WARNING: Do NOT start the system with this jumper set to pins 1-2.

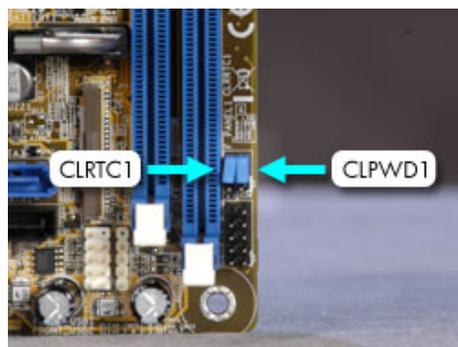
2. Wait 10 seconds and then return the jumper to pins 2-3.



3. You may now restart the PC.

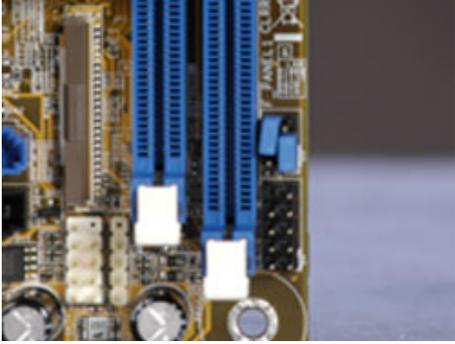
Clearing BIOS password

This motherboard has a jumper to disable password checking.

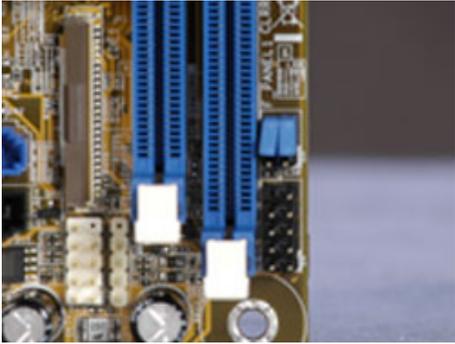


To clear the BIOS password follow these steps:

1. To disable BIOS password checking, move the jumper CLPWD1 to pins 1 and 2.



2. You may now start the computer, enter BIOS setup, and change or erase the password.
3. To enable BIOS password checking, replace the jumper on pins 2-3.



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