HP

HP Customer Support

HP and Compaq Desktop PCs - Motherboard Specifications, IPMTB-TK (Truckee)

Figure 1: The IPMTB-TK (Truckee) motherboard

Motherboard description

- Manufacturer's motherboard name: Pegatron IPMTB-TK

- HP/Compaq name: Truckee

Form Factor

- 24.5 cm (9.6 inches) x 24.5 cm (9.6 inches)

Chipset

- Intel X58 Express

Front-side bus speed   ⊟

- 4.8 GT/s QPI

Processor upgrade information   ⊟

- TDP: 130W

- Motherboard supports the following processor upgrades:

  - Intel Core i7 9xx series (Bloomfield, includes Extreme Edition)

Memory upgrade information   ⊟

- Triple channel memory architecture

- Six 240-pin DDR3 DIMM sockets

- Supports PC3-8500 (DDR3-1066) DIMM types

- Non-ECC memory only, unbuffered

- Supports 4 GB DDR3 DIMMs

- Supports up to 24 GB on 64-bit PCs

- Supports up to 4 GB* on 32-bit PCs

🔔 **NOTE:**

*32-bit operating systems cannot address a full 4.0 GB of memory.

Video ▭

No Integrated graphics ▭

Motherboard does not contain onboard graphics hardware to display video. A video card must be installed.

Audio ▭

Integrated Realtek ALC888S Audio ▭

*Integrated audio is not available if a sound card is installed.

- Number of channels: 8

- Audio CODEC: ALC888S

- Maximum bit depth: up to 24-bit

- Maximum sample rate: up to 192,000 Hz

- Supports SPDIF digital

Network ▭

LAN: 10-Base-T

- Interface: Integrated into motherboard

- Technology: Intel WG82567V

- Data transfer speeds: 10/100/1000 Mb/s (Gigabit Ethernet) integrated LAN NOTE: Gigabit Ethernet is backwards compatible with 10/100 Mb/s network hardware.

- Transmission standards:10-Base-T Ethernet

Expansion Slots

- Two PCI Express 2.0 x16 graphics (for graphics cards)

- One PCI Express x4 (for cards such as network, sound, tv-tuner)

- One PCI Express x1 (for cards such as network, sound, tv-tuner)

  🔔 **NOTE:**

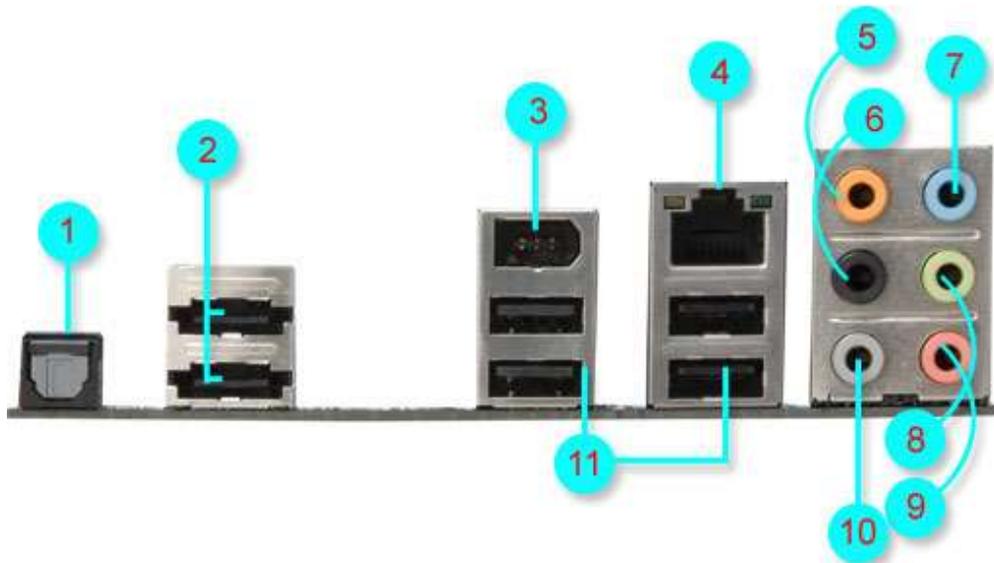 Additional PCI Express x1 cards can be installed in any available PCIe x1, x4, or x16 slot.

I/O Ports

Back I/O ports

Figure 2: Back I/O panel

1. OPTICAL S/PDIF coaxial out port.
2. SATA
3. IEEE 1394 port.
4. RJ45 Network (LAN)
5. Center/Subwoofer port (yellow orange). This port connects the center/subwoofer speakers.
6. Audio: Rear speaker out (black).
7. Audio: Line in (light blue)
8. Audio: Line out (lime)
9. Audio: Microphone (pink)
10. Audio: Side speaker out (gray)
11. USB 2.0: 4

Internal Connectors

- One 24-pin ATX power connector

- One 4-pin ATX power connector

- Four SATA connectors

- One 4-pin connector for CPU fan

- Two 3-pin 12V connectors for PC fan and chassis fan

- One 9-pin header for power button, reset button, power LED, and HDD LED
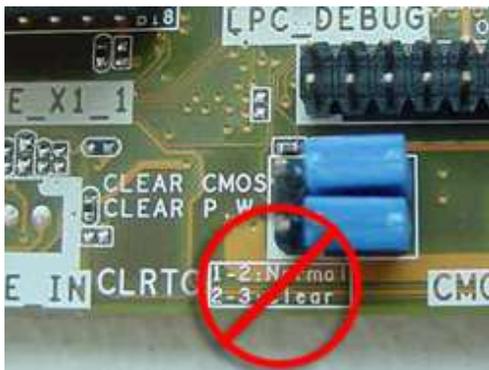
- One S/PDIF audio output connector

- One 9-pin audio header for headphone-out and microphone-in (yellow, Vista capable, requires matching front audio jack module)

- Six USB 2.0 headers

- One 1394a header

- One jumper for clearing CMOS settings

- One jumper for clearing CMOS password

Motherboard layout

Figure 3: layout

Clearing the CMOS settings

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

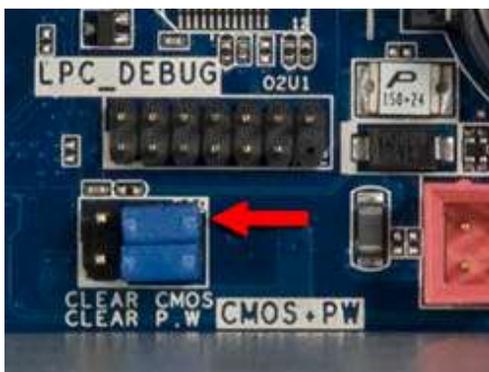This motherboard has a jumper to clear the Real Time Clock (RTC) RAM in CMOS.

The top row of this jumper block is used to clear custom BIOS settings in CMOS RAM.

> 🔔 **NOTE:**
>
> Revisions 1.02 and 1.03 of this motherboard might have the jumper positions mislabeled on the motherboard. Regardless of the way the pins are labeled the physical jumper positions remain the same for all versions of the motherboard
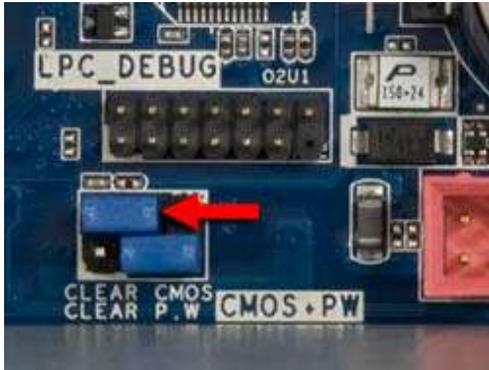

The default setting for this jumper is bridging the two top-right pins.

Clear CMOS settings as follows:

1. Make sure the computer is turned off and the power cord is disconnected.

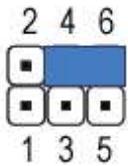2. Temporarily move the jumper to bridge the two top-left pins.

3. Wait 5-10 seconds and then return the jumper to the two top-right pins.
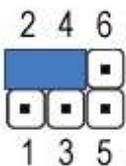
4. Plug in the power cord

5. Turn on the computer and enter BIOS setup to reset any custom BIOS settings

The final pin numbering for this jumper will be "2, 4, 6" from left to right.

The physical jumper positioning remains the same regardless of numbering.

Normal (Default)

Clear CMOS

The final pin numbering for this jumper will be "1, 3, 5" from left to right.

The physical jumper positioning remains the same regardless of numbering.

Clearing the PASSWORD settings

The BIOS password is used to protect BIOS settings from unwanted changes. If you have forgotten your password you may disable password checking.
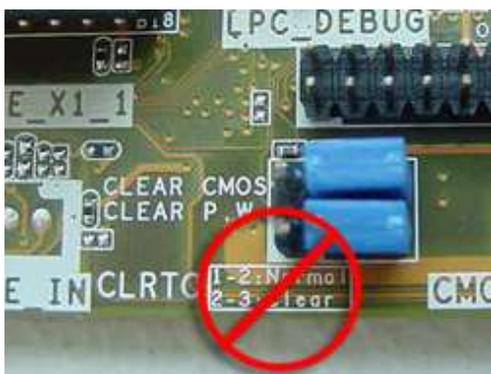
> **⚠ CAUTION:**
>
> Do not change any jumper setting while the computer is on. Damage to the motherboard can result.

To erase the BIOS password follow these steps:

> **🔔 NOTE:**
>
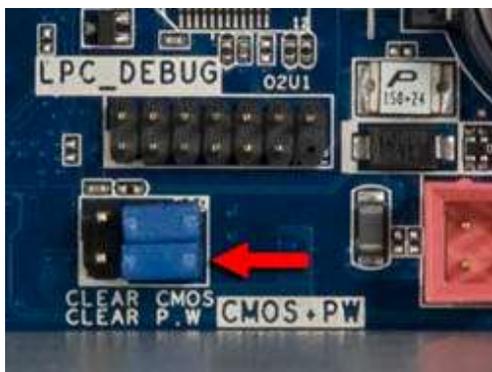> Revisions 1.02 and 1.03 of this motherboard may have the jumper positions mislabeled on the motherboard.

Physical jumper positions will remain the same for all versions of the motherboard.

The bottom row of this jumper block is used to clear a custom BIOS password. The default setting for jumper CLEAR P.W. is bridging the two bottom-right pins of the jumper block.
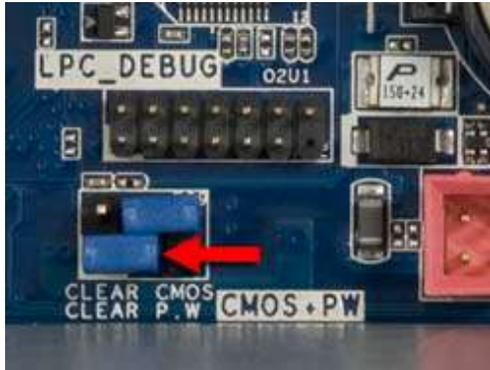
To clear the BIOS password:

1. Turn OFF the computer and unplug the power cord.

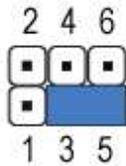2. Locate the jumper labeled CLEAR P.W.

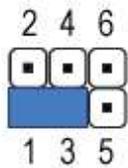3. Move the jumper to CLEAR P.W to the bottom-left pins.

4. Plug in the power cord and turn ON the computer.

5. Hold down the F10 key during the startup process and enter BIOS setup to change or clear the password.

6. After changing or clearing the BIOS passwords, remember to reset the jumper to the bottom-right pins

Normal (Default)

Clear P.W.

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