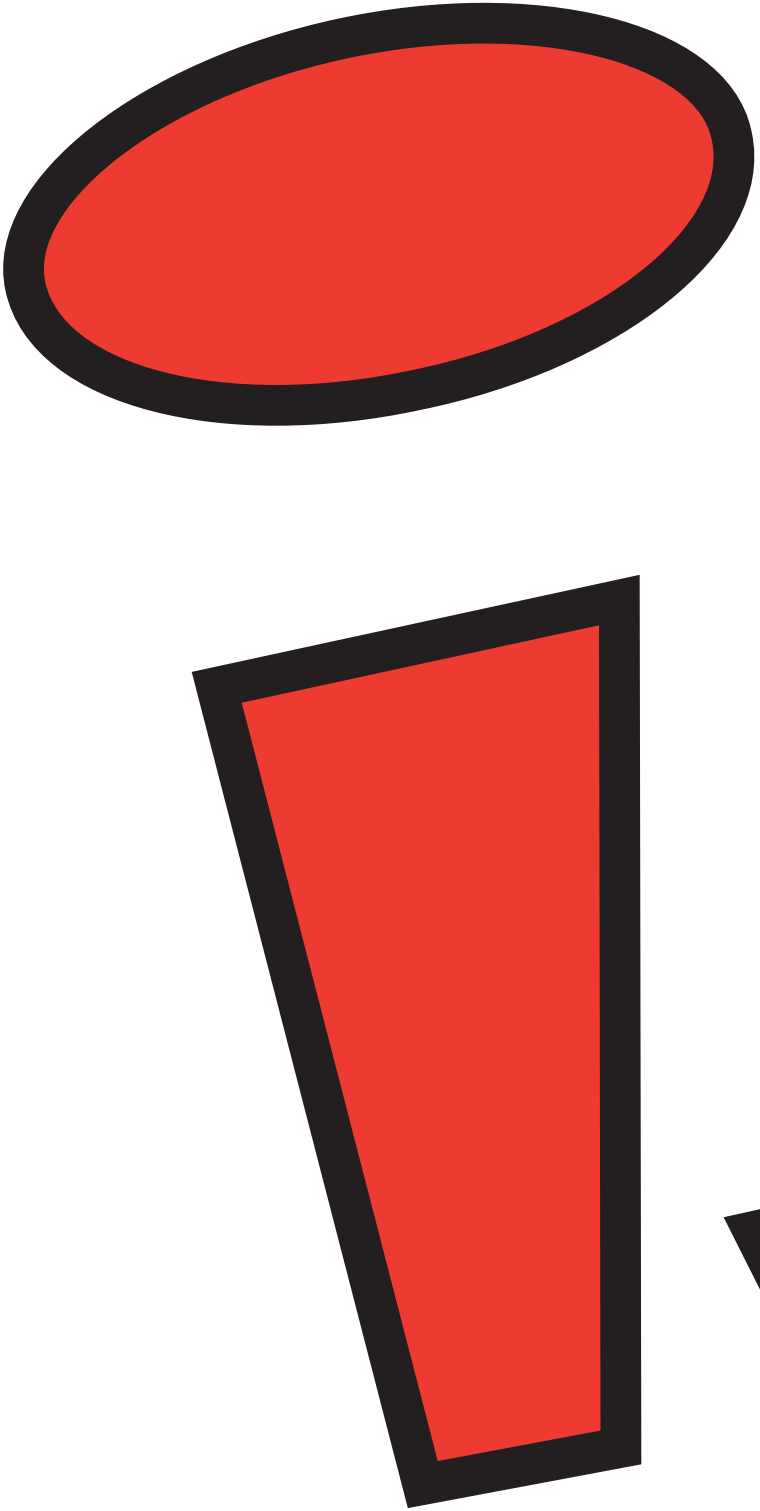

iDOT.computers

M2 Systems

User's Handbook

FCC Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions related to the EMC performance of this product, contact:

iDOT.com
Building 6, Suite 100
9715 Burnet Road
Austin, Texas USA 78758 USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit other than the one to which the receiver is connected.

Part Number	Edition	Date
DOC1015	First	November 1998

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Welcome

Package checklist

In addition to this book, your iDOT.com™ M2 system package should include the items listed below. If any item is damaged or missing, contact the iDOT.com Customer Service Department at 888-315-9563.

- M2 computer
- mouse
- keyboard
- power cable
- modem cable (if your system includes a modem)
- monitor (if you ordered a monitor)
- Microsoft® Windows® 98 documentation, and *Certificate of Authenticity.*

Note

The Product ID number, which you'll need to set up your system, is on the *Certificate of Authenticity.*

Ordering options and replacement parts

For complete information about options and replacement parts available for your M2 system, see the iDOT.com Web site: **www.idot.com**.

Contacting iDOT.com

For the most up-to-date information about your M2 system and for sales or technical support, go to the iDOT.com Web site at www.idot.com. You can also contact iDOT.com at these numbers:

Customer Service	888-315-9563
Sales	888-388-4368
Technical Support	888-316-6302

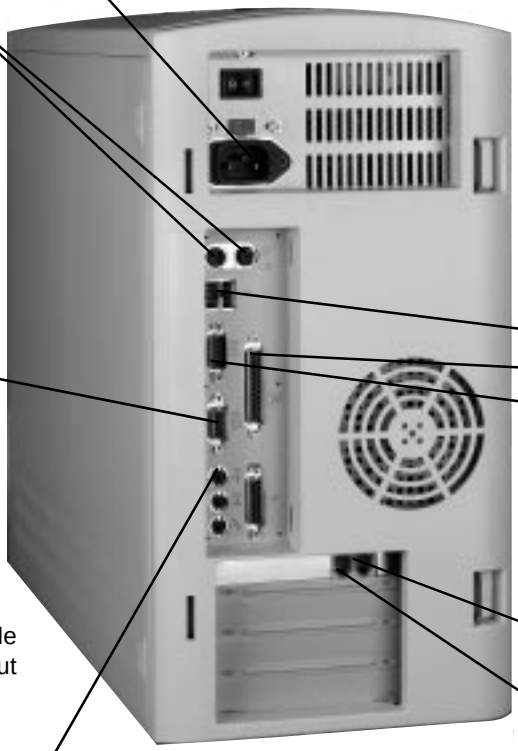
Setting Up Your M2 System

❶ Plug the power cable into the back of the M2 system. Make sure the plugs are firmly seated in their sockets.

❷ Plug in the keyboard and the mouse. Remove the protective shield from the ball on the bottom of the mouse.

❸ Connect one end of the monitor cable to the M2 video port and the other end to the monitor. Plug the monitor into a power outlet.

❹ Plug the left speaker cable into the right speaker input jack. Plug the speaker's power adapter into the DC jack on the back of the right speaker. Plug the green speaker cable into the port on the back of the M2 system. Plug the adapter into a power strip or surge protector.*



❺ Connect the modem to the PHONE jack. Connect one end of the phone line to the LINE jack and the other end to the wall jack.

❻ If you have a USB device, connect it.

Connect your printer.

If you have a serial device, connect it to the COM1 port.

❼ Make sure all power cables are plugged into power outlets. iDOT.com recommends that you use a surge protector or UPS (uninterruptible power supply).

❽ Turn on the printer first, then the monitor, speakers, and computer. The system power switch is located on the back of the computer; the secondary switch is on the front. The speakers' power switch is on the back of the right speaker.

* On conventional power strips, you may want to position the adapter near the end of the strip, because the adapter may cover more than one outlet.

M2 System Hardware

This chapter provides instructions for changing or upgrading M2 system hardware.

Warning

Static electricity can damage integrated circuits. Before handling any computer component outside its protective packaging, use one of these methods to discharge static electricity in your body:

- *After you turn off the main switch on the back of the computer and remove the chassis cover, touch a metal computer component (such as the power supply).*

  or

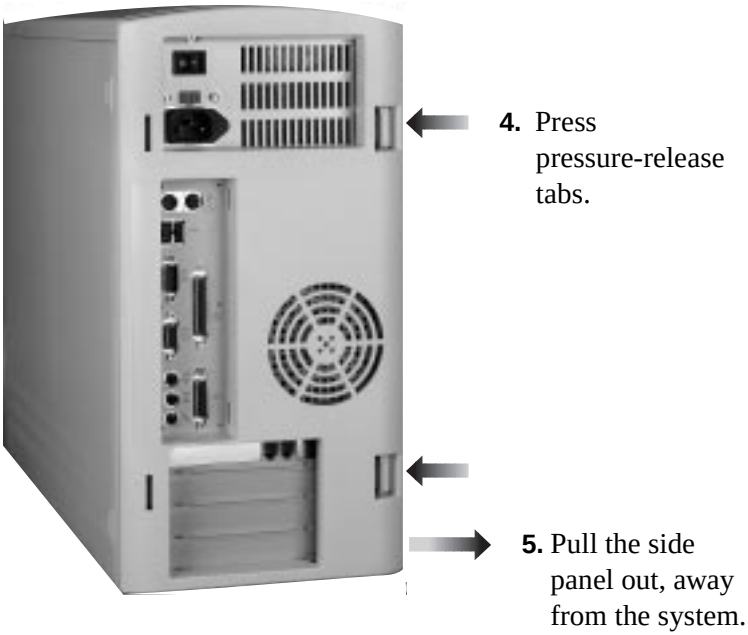
- *Wear a static wrist strap that is connected to a natural earth ground.*

Do not handle add-on cards by their “gold finger” connectors. Fingers have oils and other contaminants that can prevent connectors from making an electrical connection, which may cause errors or other malfunctions. Handle all system components by their mounting brackets or other edges.

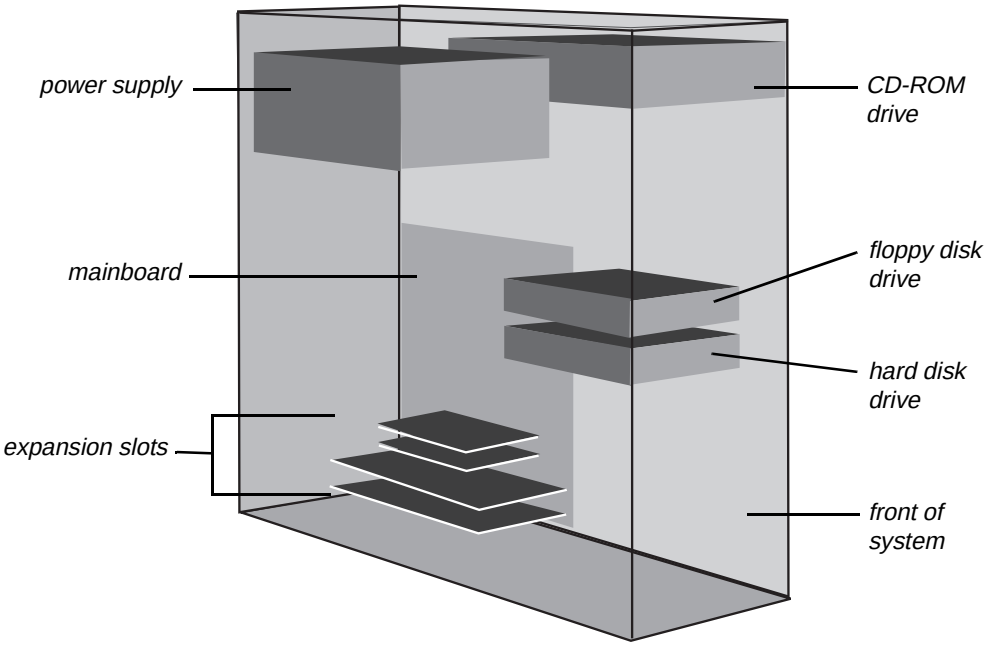
Removing the chassis cover

1. Turn off all peripheral devices connected to the system.
2. Turn off the primary power switch on the back of the system.
3. Unplug the system's power cord.

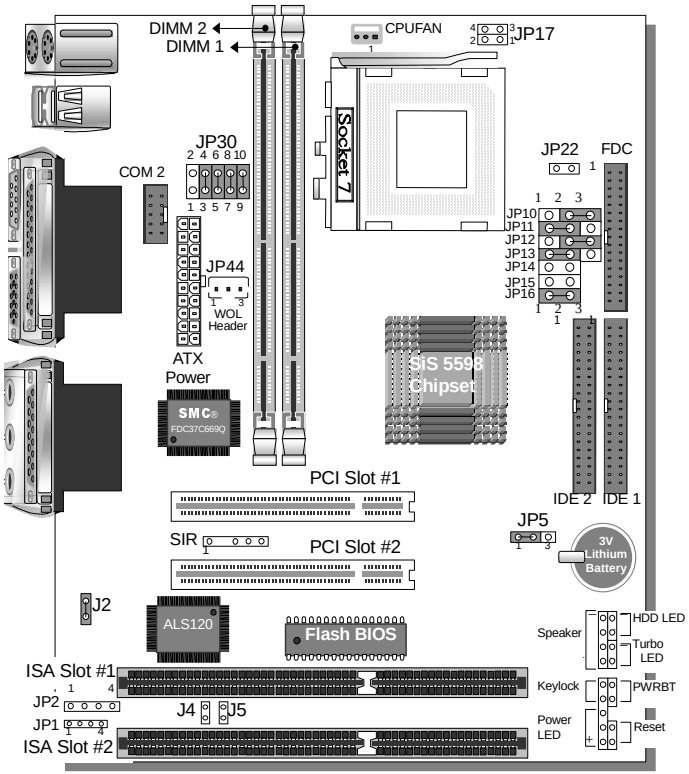
   Follow the steps shown in the illustration:



Location of main system components

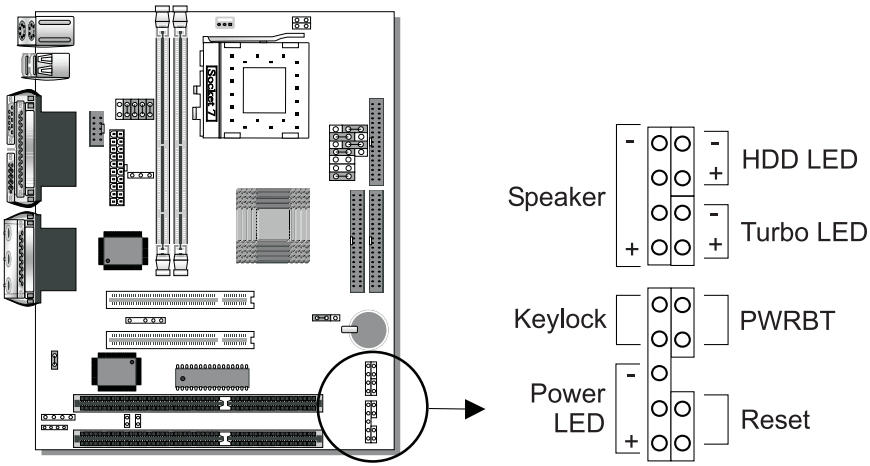


Mainboard layout



Front panel connections

Refer to the following figure to locate front panel connectors.



Power LED and keyLock

Plug the power LED cable into the 5-pin keylock connector.

Some systems feature a keylock function with a front panel switch for enabling or disabling the keyboard. Connect the keylock switch to the 5-pin keylock connector on the mainboard.

Pin assignments

Device	Pins
keylock	4, 5
power LED	1, 3

Reset

When the Reset cable is connected, pushing the **Reset** button on the front panel causes the system to restart the boot-up sequence.

Plug the Reset push-button cable into the 2-pin Reset connector on the mainboard.

Speaker

Connect the 4-pin PC speaker cable from the case to the Speaker connector on the mainboard.

Turbo LED

Connecting the 2-pin turbo LED cable to the corresponding Turbo LED connector causes the LED to light when the system is in Turbo mode. (The manufacturer has permanently set this mainboard to Turbo mode.)

IDE LED

When the IDE LED cable is connected, the LED lights when an IDE device (a hard disk drive or a CD-ROM) is active.

Connect the 2-pin IDE device LED cable to the corresponding IDE LED connector on the mainboard.

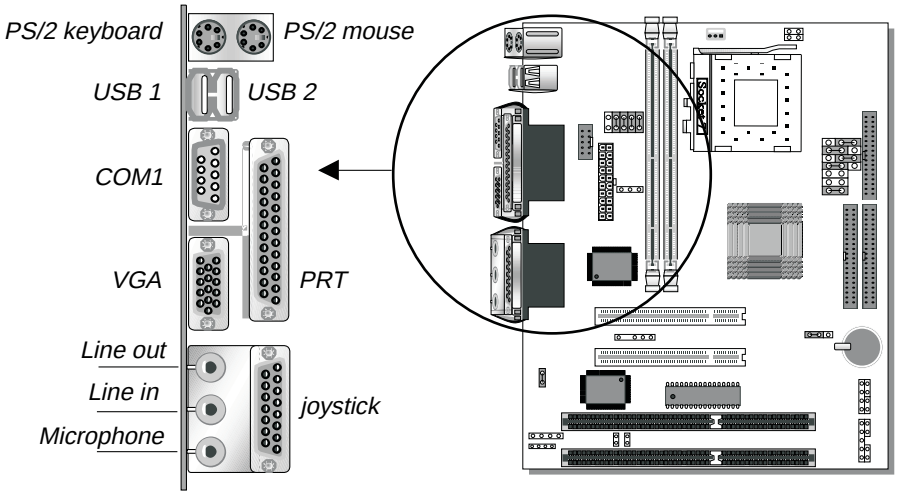
ATX power on/off switch

Connecting the switch enables the ATX power supply to be turned on and off. Connect the 2-pin momentary-type switch to the PWRBT connector.

Back panel connections

Connectors for external devices such as the PS/2 keyboard, PS/2 mouse, printer, modem, and USB are located on the mainboard back panel.

Refer to the following figure to locate back panel connectors.



Onboard serial port (COM1)

Plug the cable of the serial device (such as a mouse or a modem) into the COM1 9-pin male connector on the rear panel.

Parallel port (PRT)

Plug the cable of the parallel device (such as a printer) into the 26-pin female connector on the rear panel.

PS/2 keyboard

Plug the keyboard connector into the 6-pin female PS/2 keyboard connector on the rear panel.

PS/2 mouse

Plug the mouse connector into the 6-pin female PS/2 mouse connector on the rear panel.

Universal Serial Bus (USB1 and USB2)

Plug the USB device connector into the USB1 or USB2 connector.

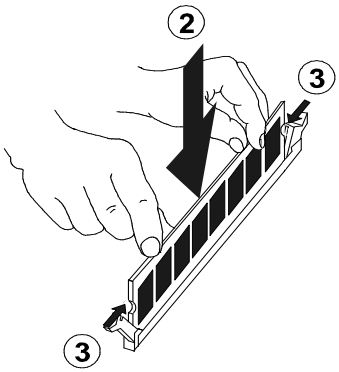
Installing and removing RAM

The M2 mainboard features two sockets for DIMMs from 8 to 128 MB. You can install the memory in any combination; there are no special memory combination restrictions, other than the following:

- Do not install EDO DIMMs in combination with SDRAM DIMMs.
- In order to use the onboard VGA with a single DRAM module, this single DRAM must be installed in bank DIMM1.

Installing DIMMs

1. Locate the DIMM slots on the mainboard. (See page 12.)
2. Use both hands to press the DIMM straight down into the DIMM socket.



When the DIMM is properly seated, the clips of the socket snap in place to hold the DIMM on either side.

Removing DIMMs

Gently press down both clips on each side of the DIMM to remove the DIMM.

Installing expansion cards

Your M2 system features the following slots for expansion cards (as shown on page 12):

- two PCI bus slots
- two ISA bus slots.

Caution

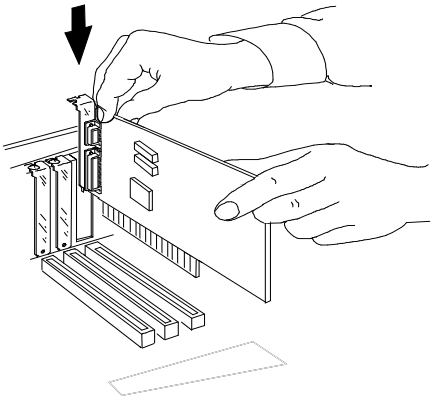
Turn off the primary system power switch on the back of the computer before installing or removing any device.

Observe static electricity precautions. See the warnings on page 9.

See "Removing the chassis cover" on page 10.

1. Remove the chassis cover.
2. Select an empty expansion slot and remove the corresponding slot cover. Keep the slot cover mounting screw nearby.

3. Holding the edge of the expansion card, carefully align the edge connector with the expansion slot.



4. Push the card firmly into the slot by pushing down on one end of the card, then the other. Use this rocking motion until the card is firmly seated in the slot.

5. Secure the board with the mounting screw you removed in step 2.

6. Make sure the card has been placed evenly and completely into the expansion slot.

Installing hard disk drives and CD-ROM drives

The M2 mainboard offers two primary and secondary IDE device connectors: IDE1 and IDE2. It can support up to four high-speed HDD or CD-ROM devices.

Connect one side of the 40-pin flat cable to the IDE device (HDD or CD-ROM). Plug the other end to the primary (IDE1) or secondary (IDE2) directionally-keyed IDE connector on the mainboard. (See page 12).

Installing floppy drives

The M2 system supports five types of floppy drives: 720 KB, 1.2 MB, 1.44 MB, 2.88 MB, and LS-120. The mainboard also supports a 3-mode (720 KB/1.2 MB/1.44 MB) floppy drive commonly used in Japan. The mainboard can support up to two floppy drives.

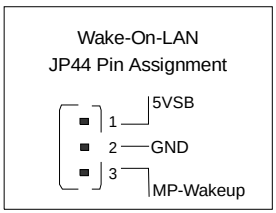
Connect one side of the 34-pin flat cable (labeled **FDC**) to the floppy drive. Plug the other end to the floppy drive connector on the mainboard. (See page 12).

Device pin assignments

This section contains information about pin assignments for devices connected to the M2 mainboard.

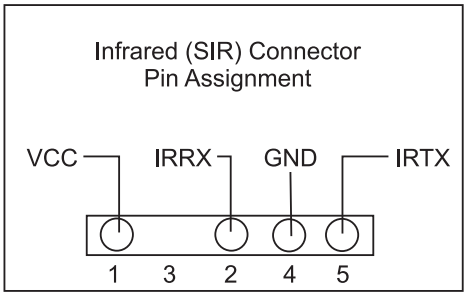
Wake-On-LAN (JP44)

The LAN card that supports the Wake-On-LAN (WOL) function connects to the JP44 connector on the mainboard.

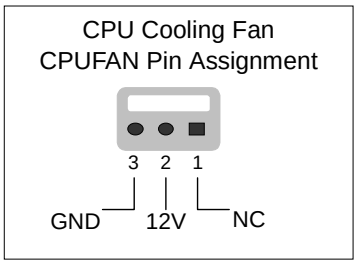


Infrared (SIR)

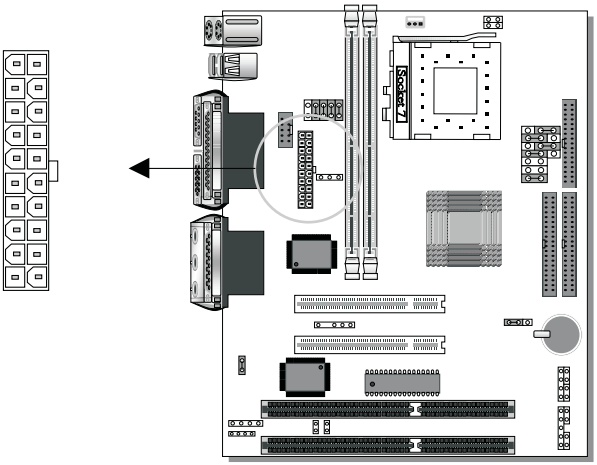
The 5-pin infrared device cable connects to the SIR connector on the mainboard. (The M2 mainboard meets both ASKIR and HPSIR specifications.)



CPU cooling fan



ATX power supply



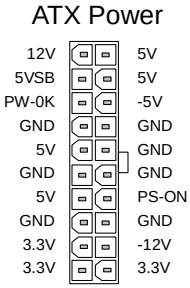
Warning

Turn off the power supply and unplug the power cord of the ATX power supply before you connect the power supply to the ATX Power connector.

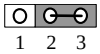
The mainboard requires a power supply of at least 150 Watts and a "power good" signal. Make sure the ATX power supply can support a minimum load of 720 mA on the 5V Standby lead (5VSB).

If you use the Wake-On-LAN (WOL) function, make sure the ATX power supply can support at least 720 mAmp on the 5V Standby lead (5VSB).

ATX power supply pin assignments are as follows:



Power-on By Keyboard jumper (JP10)

Enable	Disable (default)
	

Note

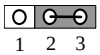
When you enable the *power-on by keyboard* function, make sure the ATX power supply can support a load of at least 720mA on the 5V Standby lead (5VSB).

Clearing and resetting CMOS memory (JP5)

To clear and reset CMOS memory:

1. Turn off the computer.
2. Unplug the ATX power supply cable from the ATX power connector.
3. Clear the CMOS memory by shorting pins 2-3 on jumper JP5 for a few seconds.
4. Recover and retain the default settings by restoring JP5 to the initial 1-2 jumper setting.

Jumper JP5 is easily identified by its white cap.

Clear CMOS data	Retain CMOS data (default)
	

Replacing the battery

Your M2 computer uses a 3-volt lithium battery, which should last about seven years. If you need to replace the battery, replace it with an equivalent battery. To purchase a new battery, check a local store such as Radio Shack or Home Depot. Ask for a battery with a part number that includes the identification code *CR2032*.

Warning

There is a danger of explosion if you install the wrong battery.

Discard used batteries according to the manufacturer's instructions.

To replace the battery, follow these steps:

1. Observe the precautions described on page 9.
2. Turn off all peripheral devices connected to the system. Turn off the computer's primary power switch on the back of the system.
3. Remove the chassis cover. (See "Removing the chassis cover" on page 10.)
4. Locate the battery on the mainboard. (See page 12.)
5. With a medium flat-bladed screwdriver, gently pry the battery out of its socket. Note the orientation of the + and – on the battery.
6. Place the new battery in the socket, orienting the + and – correctly.
7. Replace the chassis cover.

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