

MAKE A COPY AND SHARE BACK WITH MRS LAMARCHE PLEASE lamarchesa@tfsd.org - USE EASY BIB to cite your sources please. Please think of the pre-lab as a note catcher. You will do specific research on the items listed below.

Here are some resources. Use these resources or find others you like. Please be sure to cite your sources. Think of this exercise as a note catcher. Research Each Part

PowerCert - [What is a Motherboard](#) - (basic)

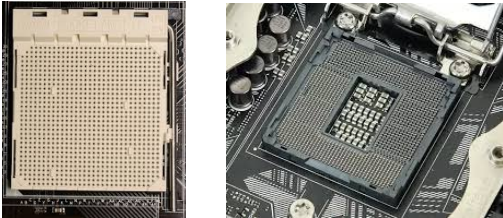
Linus Tech Tips: [How motherboards work](#) (advanced) Answers power connectivity and Data Connectivity. Also, I do have a computer running SLI if anyone is interested.

HP - [What does a Motherboard do?](#) (intermediate)

UniEnergy - [CMOS Battery](#) (good read - interesting)

Basics of PC parts - [What is in your computer?](#) -(basic, basic) warning - example uses a HDD but a great simple big picture explanation of parts needed to build a PC

What can you tell me about about processor sockets:



Memory slot: What determines the type of memory a motherboard supports?

How can you tell what kind of memory is compatible?

Lifewire. 2021. *How to Check RAM and Motherboard Compatibility*. [online] Available at: <<https://www.lifewire.com/check-ram-and-motherboard-compatibility-5186297>> [Accessed 6 October 2021].



What is a Chipset? What has this technology been replaced with?

PowerCert - [What is a Motherboard](#) ← find the answer here

IO ports - What does IO stand for? What are IO ports?

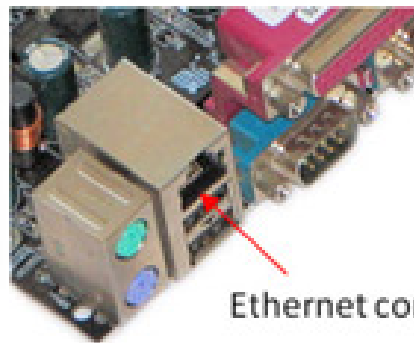
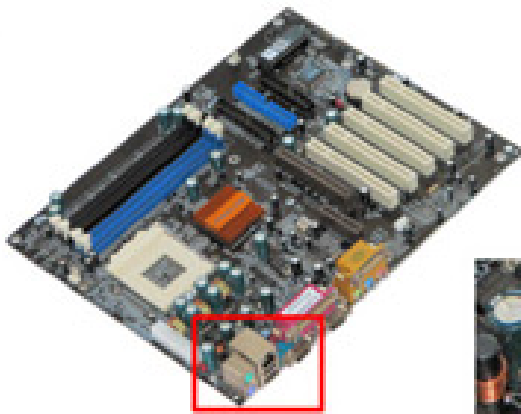


What are integrated ports?

What is an IO Shield?

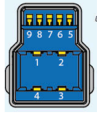
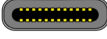
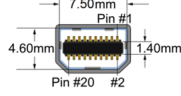


What is an Integrated nic?



Ethernet connection

What is USB - What is the difference? Does it matter what USB your motherboard supports?

USB 1.0 12mbps   Type A  Type B   Mini-A Mini-B   Micro-A Micro-B	USB 2.0 480mbps   Type A  Type B   Mini-A Mini-B   Micro-A Micro-B	USB 3.1 Gen1 (Previously 3.0) 5gbps   Type A  Type B  Mini-B  Micro-B	USB 3.1 Gen2 10gbps   Type A  Type-C	USB 3.2 20gbps   Type-C	Thunderbolt 2 20gbps  Mini DisplayPort Connector  Thunderbolt 3 40gbps   Type-C
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What is an integrated Audio/ Audio Port?

What is an integrated Video/ video port?

What is a PCIe Slot?

PCIx1 - slots

PCIEx8 - slots

PCIEx16 - slots

What is a CMOS battery

What are the types of power connectivity found on a motherboard?

What are the types of data connectivity found on a motherboard?

What is a header?

What is a resistor?

What is a capacitor?

What is a transistors?

What is a formfactor? Please give a few examples.

What else do you know about Motherboards not mentioned? (optinoal)