



# Reverse engineering challenge

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# Wifi adapter

By derek



# What is a wifi adapter

- A wifi adapter is "wireless network adapter is a computer hardware component designed to enable computers to communicate wirelessly over a network".

[What Is Wireless Adapter and How to Find It on Windows 10? \(minitool.com\)](https://www.minitool.com/what-is-wireless-adapter-and-how-to-find-it-on-windows-10/)



# THE HARD DRIVE-The Library

By Anthony Valdes



# What is the Hard Drive

A computer hard drive (or a hard disk or HDD) is one kind of technology that stores the operating system, applications, and data files such as documents, pictures and music that your computer uses. The rest of the components in your computer work together to show you the applications and files stored on your hard drive.

## What does the Hard Drive do



Every computer – whether it's a tower desktop or laptop – is equipped with an internal hard drive. The hard drive is where all your permanent computer data is stored. Whenever you save a file, photo, or software to your computer, it's stored in your hard drive.

# Hard drive Casing Information

From-SeaGate

250 GB storage capacity

5400.6 RPM

FIRMWARE-DOO3DEM1







# KeyBoard-**WRITING POWER**

Anthony Valdes



# What Is a KeyBoard?

A KeyBoard is a machine that has keys that you can press to spell different characters in the machine and screen. Each Key can type in the screen with usually a letter or number while other different keys on the keyboard have different function like the volume buttons. Also you can hold many different keys to do a special action like copy and paste being ctrl and C to copy and then CTRL V will paste whatever you copied.

A keyboard is for putting information including letters, words and numbers into your computer. You press the individual buttons on the keyboard when you type. The number keys across the top of the keyboard are also found on the right of the keyboard. The letter keys are in the centre of the keyboard.

[www.nidirect.gov.uk](http://www.nidirect.gov.uk)

What does the keyboard do?

*KeyBoard Copyrights*

DP-N 0XHKIF

MODEL-NSK-DR. OSQ 01





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# CPU HEAT SINK

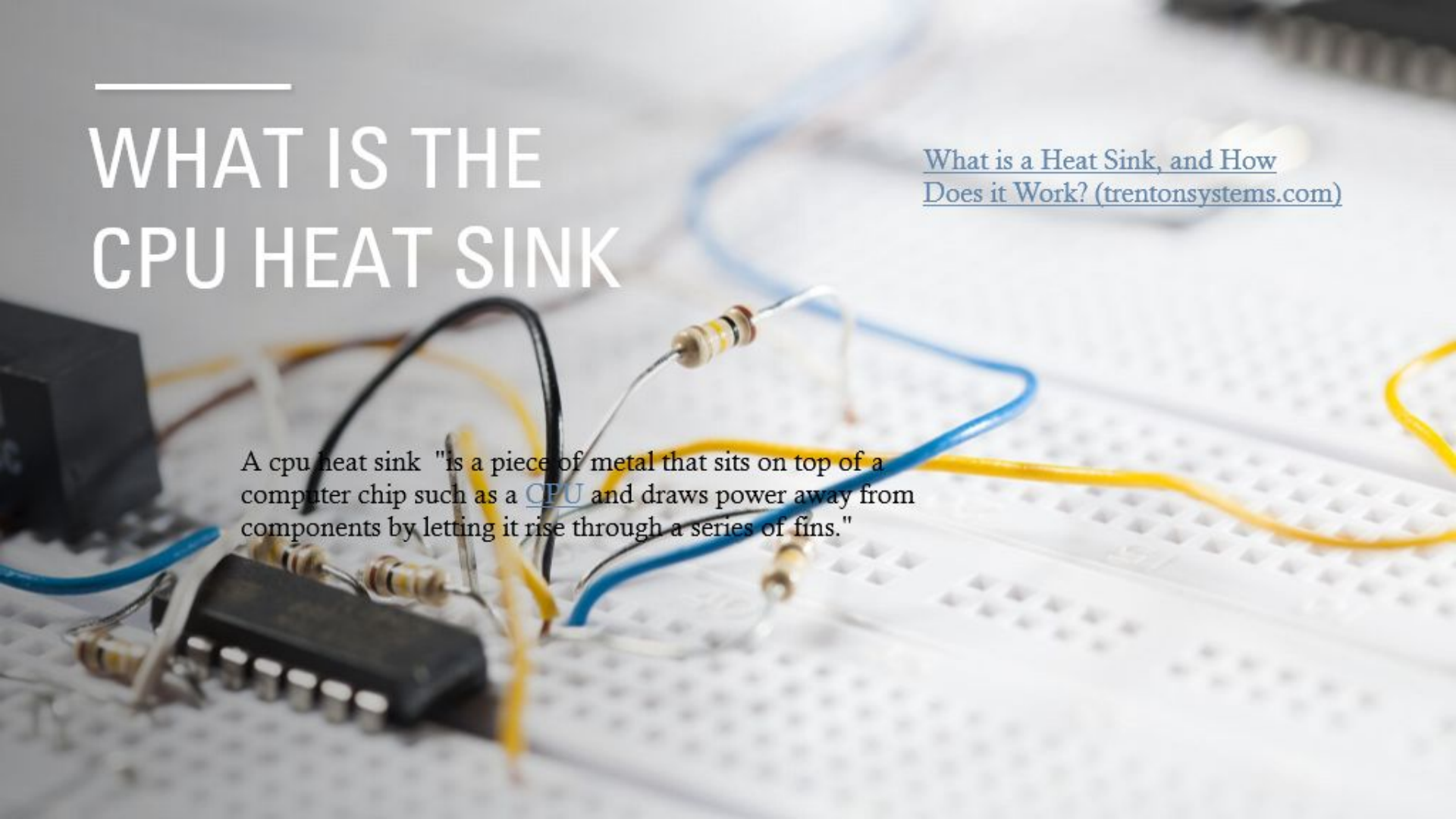
By derek

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# WHAT IS THE CPU HEAT SINK

[What is a Heat Sink, and How  
Does it Work? \(trentonsystems.com\)](https://trentonsystems.com)

A cpu heat sink "is a piece of metal that sits on top of a computer chip such as a [CPU](#) and draws power away from components by letting it rise through a series of fins."



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*Lcd laptop*

By derek





# *What is a lcd laptop screen*

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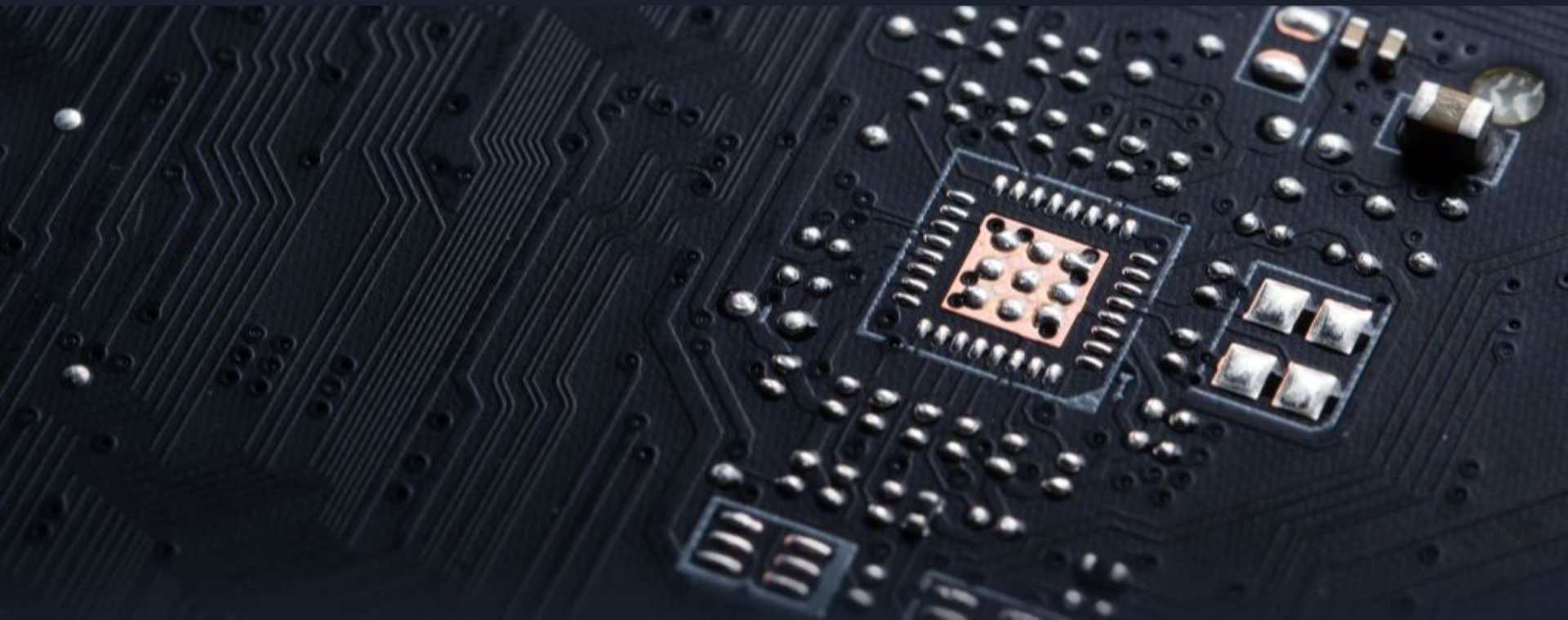
A lcd laptop screen or liquid crystal display "monitors feature a layer of liquid held between two pieces of polarized glass. The LCD monitor does not produce its own light. The electric current aligns the crystals in the liquid layer, which allows or blocks light, depending on what color it's supposed to display".

[LED vs. LCD Monitors - The Key Differences | CDW](#)



# Sound card

By derek



# What is a sound card

- A sound card is a "computer component that translates digital audio signals to analog ones, and analog audio signals to digital ones".

[What is a sound card? Everything you need to know - SoundGuys](#)



# usb

By derek

# What is a usb

- It is a technology used to connect computers with other devices

Memory

# Memory info

- Without your computer being able to store and access data quickly, none of your apps or other processes would work. That's where your RAM comes in. But what is RAM exactly and how does it work? Keep reading to learn what RAM means, why it's so important for smooth, fast processing, and how to optimize your computer's RAM with specialized performance software.



What is a  
Cpu



# WHAT IS A CPU

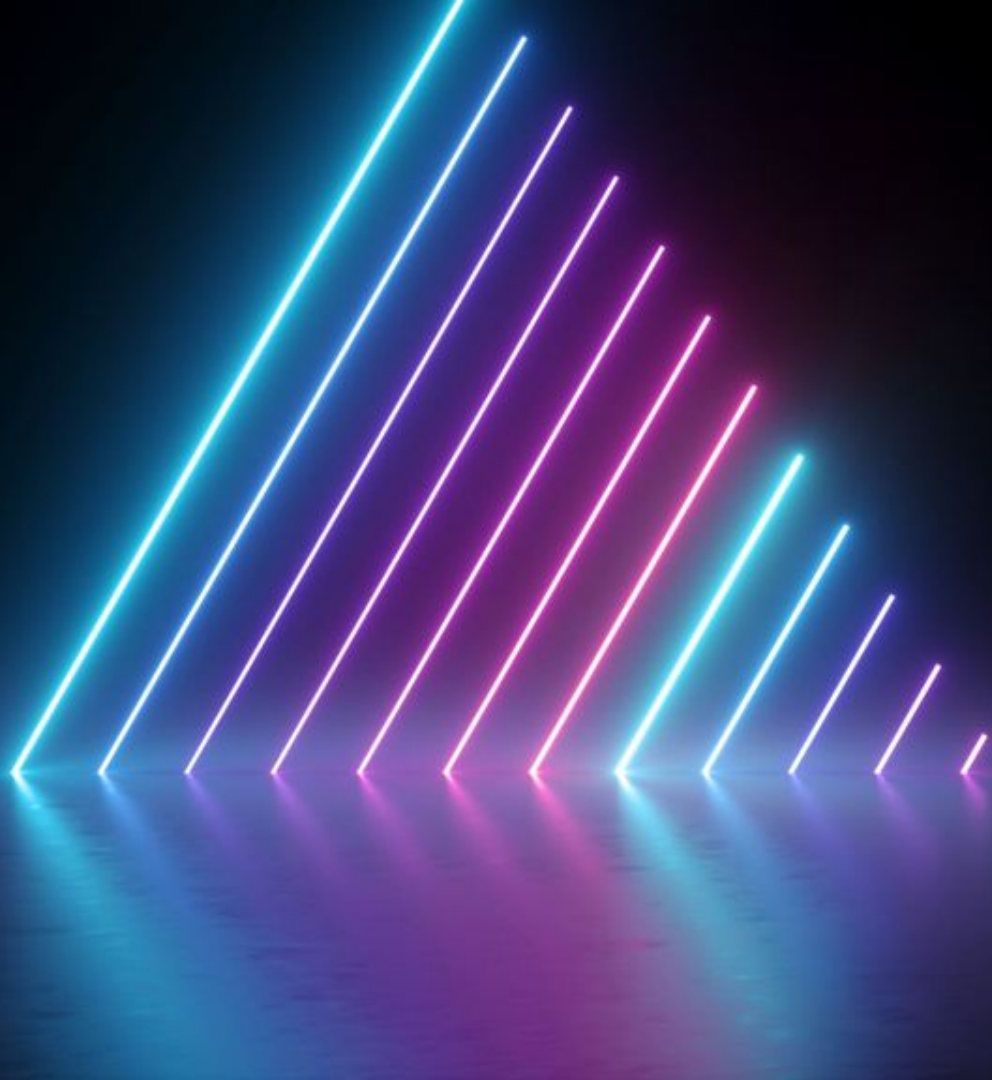


A CPU or central processing unit is an "electronic machinery that executes instructions from programs so you can call your friends, open your web browser, or write emails" and it has 1.73 megahertz

[What is a CPU \(Central Processing Unit\)? | Malwarebytes](#)

1.73/2m/533 Intel

MOTHER  
BOARD



A MOTHERBOARD IS THE MAIN PRINTED CIRCUIT BOARD IN GENERAL-PURPOSE COMPUTERS AND OTHER EXPANDABLE SYSTEMS. IT HOLDS AND ALLOWS COMMUNICATION BETWEEN MANY OF THE CRUCIAL ELECTRONIC COMPONENTS OF A SYSTEM, SUCH AS THE CENTRAL PROCESSING UNIT AND MEMORY, AND PROVIDES CONNECTORS FOR OTHER PERIPHERALS(GOOGLE.COM)

# Wifi adapter

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By Evan Perez



# Specific device

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- Broadcom BCM94312HMG
- FCC ID: QDS-BRCM1030
- MAC: F07BCB32D196
- DW1397
- CN-0FR016-13740-032-002Y-A03

# Information

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The Broadcom BCM94312HMG is a wireless LAN adapter released in 2007. It supports the 802.11b/g/n standards and has data rates of up to 300 Mbps. It has a PCI Express interface for easy installation in laptops and desktop computers, as well as a built-in amplifier to improve the range and reliability of the wireless connection. The adapter also supports WEP, WPA, and WPA2 encryption for security and is compatible with various operating systems including Windows and Linux. It has dimensions of 4.7 x 3.1 x 0.9 inches and weighs 0.6 ounces. It also has an external antenna that can be attached to improve the range and performance of the wireless connection. The adapter supports advanced features such as WMM and APSD to optimize the performance of the wireless connection.

# Images





# Battery By: Russel Barreto



## What is a Battery?

Chemical reactions that create a flow of electrons in a circuit from a collection of one or more cells are called batteries. Three basic components: a cathode, which is positive, an anode, a negative, and an electrolyte which is a substance that can chemically react with the anode and cathode. A chemical reaction taking place between the anode and the electrolyte will happen when the cathode and the anode is connected to a circuit. A flow through the circuit and into the cathode causes another chemical reaction from electrons. The material in the cathode or anode isn't going to be able to be used in the reaction. This will cause the battery to be unable to produce electricity, in which it'll be dead. Thrown away batteries are called primary batteries. Secondary batteries are batteries able to be recharged. The Computer Batter

# Computer casing

A computer case safeguards all of the important—and expensive—parts of a PC or other computing device. Internal components include things like the motherboard, chassis, drives, CPU and more for small desktop units, all the way through whole networks and even up to advanced blade servers.



# Dvd player

A DVD player is a device that plays DVDs produced under both the DVD-Video and DVD-Audio technical standards, two different and incompatible standards. Some DVD players will also play audio CDs.

