

Types of hardware devices

What are basic electronic components?

Basic electronic components are fundamental building blocks used in electronic circuits to perform specific functions. These components include res...

What is the function of a resistor in an electronic circuit?

A resistor is used to control the flow of electric current in an electronic circuit by providing resistance. It helps limit the current, divide vol...

What does a capacitor do in an electronic circuit?

A capacitor stores and releases electrical energy. It is often used to filter signals, smooth voltage fluctuations, and store charge for various ap...

What is the role of a diode in electronics?

A diode allows current to flow in one direction only. It is used for rectification (converting AC to DC), voltage regulation, and signal demodulati...

How does a transistor function in circuits?

A transistor acts as an amplifier or a switch in electronic circuits. It can amplify weak signals, control larger currents, and perform logical ope...

A computer monitor is an output device that shows visual data, such as text, images, or videos, on a screen. It typically includes a display panel, supporting circuitry, power unit, enclosure, connectors for external devices, ...

Handheld computing devices are small enough to fit in your hand. Common examples of handheld computing devices include tablets, smartphones and personal digital assistants. Handheld computing devices often have touch ...

I/O Hardware is a set of specialized hardware devices that help the operating system access disk drives, printers, and other peripherals. These devices are located inside the motherboard and connected to the processor ...

Basic Electronic Components are electronic devices or parts usually packaged in a discrete form with two or more connecting leads or metallic pads. These devices are intended to be connected together, usually by soldering to ...

Hardware tokens or hard security keys are hardware devices that utilize encryption algorithms, one-time passwords (OTP), time-based one-time passwords (TOTP), authentication codes, biometrics, or a secure PIN

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to ...

There are different types of input devices of computer; below explain each one -. These are primary input devices because pointing devices create the input interface, with the help of this interface user help to control and feed the ...

Types of Kernel The kernel manages the system's resources and facilitates communication between hardware and software components. These kernels are of different types let's discuss each type along with its advantages ...

How device drivers abstract hardware-specific details and provide a standardized interface for the operating system. The translation of high-level commands from the operating system into low-level commands understood by ...

Computer hardware is the physical components you can touch in a computer, like the processor, memory, storage, motherboard, graphics card, and peripherals like keyboards and monitors. These components work together to ...

2. Hardware Interrupts In a hardware interrupt, all the devices are connected to the Interrupt Request Line. A single request line is used for all the n devices. To request an interrupt, a device closes its associated switch. When ...

In Linux, even the hardware devices are treated like ordinary files, which makes it easier for the software to interact with the device drivers. When a device is connected to the system, a device file is created in /dev directory. ...

Network devices are physical devices that allow hardware on a computer network to communicate and interact with each other. Network devices like hubs, repeaters, bridges, switches, routers, gateways, and brouter help ...

2. Computer Hardware Output Devices are responsible for outputting information from the computer. Some examples of output devices are monitors, printers, projectors, sound cards, video cards and speakers. What is ...

Peripherals are commonly divided into three kinds: input devices, output devices, and storage devices (which partake of the characteristics of the first two). An input device converts incoming data and instructions into a ...

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