

Storage devices are also known as the “Storage Medium, Storage Media or Digital Storage”. Storage device is a computer hardware component that helps to store, porting or retrieving data files and objects. Storage devices are capable to store information in both natures like as temporarily and permanently. These devices may be used for internal or external to a computer, server or computing device.

Computer storage devices play vital role in the computer industry because without storage devices entire system like as plastic box. There are different types of storage devices:

Primary Storage Device

Secondary Storage Device

Tertiary Storage Device

Primary storage devices are constructed with integrated circuits (IC) or semiconductor components. Primary storage is also known as “Main Storage”, “Main Memory” or “Internal Memory” as well as they play major role for storing data and applications as a temporarily basis while the computer is running mode, because these storage devices are capable to access all data directly from CPU with the help of various data buses. These devices have limited capacity for data storage compare to secondary storage devices. Primary storage devices are available in two variance such as volatile and non volatile. Volatile storage is called temporary storage because in which all data are deleted when power gets turn off mode but its access time and response time much fine to secondary storage devices. Non volatile storage is permanent storage in which nothing data erase when system gets turn off.

Secondary storage devices are also known as “Auxiliary Memory”, or “External Memory”. Secondary storage devices are volatile in nature; it means that data does not discard while getting to turn-off power, in which all data store for long time. Secondary storage devices has the speed of access of data is very slow compare to primary storage devices, and they are cheaper as well. Without primary storage devices, these secondary storage devices are useless because secondary storage devices must be needed the primary memory for processing data. First of all, entire data is transferred into primary memory then data is getting to make for executable.

Tertiary storage offers the third phase of storage medium. It enables with robotic mechanism that will help to insert and remove massive storage media into storage device as per the system’s need. Tertiary storage systems are typically of object storage type so every logical record can be fetched individually. Tertiary storage is used to move media in between their long-term storage locations and available drives without human intervention.

The primary function of storage device of computer is to keep store, port or extract data file and objects; and storage devices are able to hold and store all information both temporarily and permanently nature. You have to need the storage devices to get back up or archive your essential data as permanently that doesn’t get corrupted lost or destroyed easily.