SSD is a non volatile storage device, 9t stands for Solid State drive.

SSD Stores data on flash memory chips 4 maintains the data in a permanent state, even when the power is oft.

* In companision to electromechanical devices (drives), SSD's have Dower latency Rate and access quickly, These Storage devices stores the data is Semiconductor Cells.

* They do not have moving pants.

Types of SSD

* mSATA SATA

*2 / M.2

* PCIe

SATA/mSATA — The first interface/generation used with SSD's is called SATA deliners speeds up to 600 mB/s and its size fits SATA also comes in smaller size called m-SATA.

11 SATA is slowest among all SSDs, but it still has a data transfer rate up to SX faster than HDD.

2) Nume: Non-Volatile Memory Express (Nume) is a protocol for SSD that allows data exchange speeds to reach 5x times as fast as SATA/ mSATA SSDS upto 2600 MB/s. * newer SSD than SATA SSDs. * require more power than SATA SSDS * more expensive The Nume protocof also works with flash memory, which means that even external or portable. External Nume SSD will perform as fact as Internal NumesSD. Based on Connector type, there are two types in SSD as according to Connector used, we can categorize SSDS, which defines the data transfer speed. PCIe is som connector that is used to connect high Penforming graphic and directly to the motherboard. When Nume 850s used PCIe connectors, they deliver fastest possible data processing. M.2 Connector & Known as Next Generation from factor (NGFF). * SATAM-2 / NVMe M.2) / PCIE NVME M.2 SSP * M.2 connector ensures that as SSD reaches the *> if the Mothenboard doesn't have an m.2 connector, then alternatively -fastest speed possible (2600 MB/S). a PCTE cand with an M.2 connector is used to connect the Nume

* SSD is abbreviation of Solds State drive, HDD is abbrebiation of Hand

C* The time for reading 4 writing data in SSP is shorter.

There is lower latency in SSDs.

SSD supports the more operation of I/O
per second

* SSD do not have rotating disk, so It is having light space.

In the SSD's, the toarsfer of data is not Sequential.

SSD does not produce noise

SSD's are expensive

SSD's are safe from gagnetic effect.

SSD's generate little heat because there is no moving disk

97 consumes lu power than HDD The average boot-up time of OS is 10-13 seconds.

The file opening Speed of HDD is 30% father than HDD.

* The Time for Reading | writing Data is HDD is longer

* There is higher ladency in HDD

* HDD supports fewer Operations

* The weight of HDD is heavy

In HDD, the transfer of data is spential.

HDD produce noise due to mechanical movement.

HDD are cheaper.

In HDD, magnets can bemove the data.

HPD generale more heat because of mechanical part

gy consumes more power.

The average boot-up time of

OS is 30-40 Seconds.

The file opening speed is Slightly, slower.

Advantages PJ SSD

The speed of reading 4 writing the data is faster.

The main advantage of SSD is that is produces I we noise

Noise

Sue to fligh speed of SSD's files are transferred quickly.

Disciduantage of SSD

Cost is high
Recovery of lost data is not possible.
The storage capacity of SSD is also less.