

Feature	HDD	SSD
Full form	Hard Disk Drive	Solid State Drive
Technology	Mechanical with spinning platters and read/write heads	Flash memory with no moving parts
Speed	Slower access times (measured in milliseconds)	Faster access times (measured in microseconds)
Data Transfer Rate	Lower sequential read/write speeds	Higher sequential read/write speeds
Random Access Time	Higher latency	Lower latency
Reliability	Prone to mechanical failures	No mechanical parts, more reliable
Durability	Sensitive to physical shock and vibration	Resistant to physical shock and vibration
Power Consumption	Higher power consumption	Lower power consumption
Noise	Audible noise due to moving parts	Silent operation
Form Factor	Available in larger capacities and various form factors	Available in smaller capacities and various form factors
Price	Generally more cost-effective per unit of storage	Generally more expensive per unit of storage
Lifespan	Longer lifespan under normal usage conditions	Finite number of write cycles per memory cell
Usage Considerations	Suitable for large storage needs, secondary drives	Ideal for improved performance, primary drives, and portable devices

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