

Comparison

Performance

A typical NAND flash drives' file copy and write speeds are typically around 200 to 550 Mbps while typical HDDs are at around 50 to 120 Mbps.

Factors	Samsung 860 EVO SATA 2.5" SSD 1TB	Typical 1TB Hard Disk Drive
Sequential Read Speed	Up to 550MB/s	147 MB/s
Random Read Speed	Up to 10,000 IOPS	0.77 MB/s or 190 IOPS
Sequential Write Speed	Up to 520MB/s	147 MB/s
Random Write Speed	Up to 42,000 IOPS*	1.53 MB/s or 380 IOPS

*IOPS – Input/Output Operations per second