

Choosing an SSD is simple. Here's how.

SATA
or
NVMe™

EVO
or
PRO

SATA interface is commonly used when replacing an HDD with an SSD.
NVMe™ interface uses the latest technology to give you ultimate performance.

EVO SSDs speed up your everyday tasks, taking you beyond HDD.
PRO SSDs are specially built for professional, graphic-heavy workloads.



SATA SSD 860 PRO | EVO

- Samsung's latest V-NAND technology
- Sequential read/write speeds up to 560/530 MB/s
- Up to 4TB capacity
- Samsung MJX Controller
- Multiple form factors: 2.5-inch, M.2, mSATA



NVMe SSD 970 PRO | EVO

- Samsung's latest V-NAND technology
- Sequential read/write speeds up to 3,500/2,700 MB/s
- Up to 2TB capacity in a compact M.2 form factor
- Samsung Phoenix Controller
- Performance for high-end gaming & heavy workloads

* The NVM Express® design mark is a registered trademark of NVM Express, Inc.

	SATA SSD		NVMe SSD	
	860PRO	860EVO	970 PRO	970 EVO
Form Factor	2.5-inch	2.5-inch, M.2, mSATA	M.2 (2280)	M.2 (2280)
Sequential Performance	Read up to 560 MB/s Write up to 530 MB/s	Read up to 550 MB/s Write up to 520 MB/s	Read up to 3,500 MB/s Write up to 2,700 MB/s	Read up to 3,500 MB/s Write up to 2,500 MB/s
Capacity	4TB, 2TB, 1TB, 512GB, 256GB	[2.5-inch] 4TB, 2TB, 1TB, 500GB, 250GB [M.2] 2TB, 1TB, 500GB, 250GB [mSATA] 1TB, 500GB, 250GB	1TB, 512GB	2TB, 1TB, 500GB, 250GB
Dimension (WxHxD)	100 x 69.85 x 6.8 mm	[2.5-inch] 100 x 69.85 x 6.8 (mm) [M.2] 80.15 x 22.15 x 2.38 (mm) [mSATA] 30 x 50.9 x 3.85 (mm)	80.15 x 22.15 x 2.38 (mm)	80.15 x 22.15 x 2.38 (mm)
Weight	Max 62.0 g	[2.5-inch] Max. 62.0 g [M.2] Max. 8.0 g [mSATA] Max. 8.5 g	Max 8.0 g	Max 8.0 g
Warranty (TBW)	5-Year Limited Warranty or TBW Limited Warranty	5-Year Limited Warranty or TBW Limited Warranty	5-Year Limited Warranty or TBW Limited Warranty	5-Year Limited Warranty or TBW Limited Warranty
	4,800 TBW (4TB) / 2,400 TBW (2TB) / 1,200 TBW (1TB) 600 TBW (512GB) / 300 TBW (256GB)	2,400 TBW (4TB) / 1,200 TBW (2TB) / 600 TBW (1TB) 300 TBW (500GB) / 150 TBW (250GB)	1,200 TBW (1TB) / 600TBW (512GB)	1,200 TBW (2TB) / 600 TBW (1TB), 300 TBW (500GB) / 150 TBW (250GB)

* Performance may vary based on system hardware & configuration.
* 1GB=1 Billion byte by IDEMA. Actual usable capacity may be less. (due to formatting, partitioning, operating system, applications or otherwise)
* 5-years or TBW, whichever comes first. For more information on the warranty, please find the enclosed warranty statement in the package.

For more information about the Samsung SSD, visit samsung.com/ssd or samsungssd.com.

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Small upgrade. Huge difference.

Samsung Solid State Drive

Sluggish computer?

Why HDDs slow you down and SSDs speed you up

HDDs bottleneck your computer’s speed with high-risk moving parts and fragmented files. Samsung Solid State Drives (SSDs) have no moving parts, so there’s nothing to slow you down. They’re the best way to turbocharge performance, secure your data, and improve PC power.

HDD vs



- Complex moving parts
- Slower speeds from fragmentation
- Limited form factor options
- Higher chance of drive failure

SSD



- No moving parts
- Faster read/write speeds
- Broad range of form factors
- Improved reliability
- Uses less power
- Less vibration, noise, and heat
- Better shock resistance

2.5-inch SATA HDD (500GB, 7200 rpm)

Magnetic Platters	Medium	NAND Flash
up to 160/160 MB/s ¹⁾	Sequential Read/Write Speed	up to 550/520 MB/s
8-10 ms	Data Seek Time	Less than 0.1 ms
1.75/0.8W	Power Consumption (Operation/Idle) ²⁾	0.1/0.05W
0.5G (22-350Hz)	Vibration	20G (10-2000Hz)
350G & 2.0ms	Shock	1500G & 0.5ms
700K hours	Reliability (MTBF)	1.5M hours

1) HDD performance may vary depending on the HDD's hardware configuration. 2) Actual power consumption may vary depending on system hardware & configuration.

Get a Samsung SSD.

Boot up, run apps, and transfer files at incredible speeds, all with added durability. Samsung SSDs with V-NAND technology are the perfect upgrade for new or aging computers.



High Speed



Shock Resistant



Low Noise



Light



Low Power



Low Heat

Speed Comparison

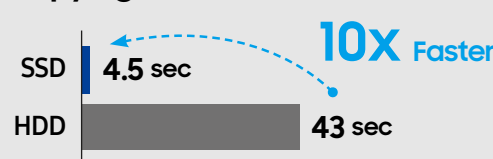
Booting Up



Unzipping 4.7GB Movie



Copying 1GB of Photos



* Based on internal testing with 500GB 2.5-inch SATA 7200 rpm HDD vs 2.5-inch SATA SSD 860 EVO 500GB. Testing conditions: Intel i7 7700K/ ASUS Z270A/ DDR4 4GB/ WIN10 RS3



Easy setup. Encrypted security.

Samsung leads the SSD industry, bringing you the best in drive management and security:

- Easy setup with Samsung Data Migration software
- SSD management including firmware updates and performance benchmark tests with Samsung Magician software
- Support for AES 256-bit hardware encryption and compliant with TCG/Opal and IEEE 1667