Upgrade everyday computing with greater speed, endurance and worry-free durability.

Featuring the latest Samsung V-NAND technology and the proven Samsung Phoenix controller, the Samsung 970 EVO Plus NVMe SSD delivers unrivaled performance. Your business will benefit from sequential read/write speeds of up to 3,500/3,300 MB/s. And the faster your computers, the faster your work gets done. Upgrade your PCs and laptops, and upgrade your productivity with the Samsung 970 EVO Plus NVMe SSD.

Key Features

SSD Designed for Performance
The Samsung 970 EVO Plus delivers breakthrough speeds, best-in-class reliability and capacities of up to 2 TB. The latest 92-layer V-NAND memory, Phoenix controller, and Intelligent TurboWrite technology enhance 4K and 3D graphic editing, high-end game play and virtually every other task.

NVMe Next-Level SSD Speed
The Non-Volatile Memory express (NVMe) interface is specifically engineered to increase NAND flash storage transfer speeds. Combined with a Phoenix controller and Intelligent TurboWrite technology, the 970 EVO Plus streamlines graphic-intensive workflows. The 970 EVO Plus also features firmware optimization to reach sequential read/write speeds up to 3,500/3,300 MB/s.

Design Flexibility
The next advancement in NVMe SSD. The 970 EVO Plus fits 250 GB, 500 GB, 1 TB or 2 TB onto the compact M.2 (2280) form factor, greatly expanding storage capacity and saving space for other components. Samsung’s innovative technology empowers you with the capacity to do more and accomplish more.

Exceptional Endurance
The new standard in sustainable performance. The 970 EVO Plus is warranted for up to 5 years or up to 1200 TBW (depending on drive size). The 970 EVO Plus provides your business exceptional endurance.

Unparalleled Reliability
Achieve a new level of drive confidence. Samsung’s advanced nickel-coated controller and heat spreader enable superior heat dissipation. The Dynamic Thermal Guard automatically monitors and maintains optimal operating temperatures to minimize performance drops.

Samsung Magician Software
Advanced drive management made simple. The Samsung Magician software will help you keep an eye on your drive. A suite of user-friendly tools helps keep your drive up to date, monitors drive health and speed, and boosts performance through RAPID mode.

Contact Us: samsung.com/b2bssd
# Samsung 970 EVO Plus NVMe M.2 Solid State Drives

## Usage Application
- Client PC

## Capacity
- 250 GB
- 500 GB
- 1 TB (1,000 GB)
- 2 TB (2,000 GB)

## Dimensions (WxHxD)
- 3.16” x 0.87” x 0.09” / 80.15 x 22.15 x 2.38 mm
- 3.16” x 0.87” x 0.09” / 80.15 x 22.15 x 2.38 mm
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- 3.16” x 0.87” x 0.09” / 80.15 x 22.15 x 2.38 mm

## Interface
- PCIe Gen3.0 x4, NVMe 1.3
- PCIe Gen3.0 x4, NVMe 1.3
- PCIe Gen3.0 x4, NVMe 1.3
- PCIe Gen3.0 x4, NVMe 1.3

## Form Factor
- M.2 (2280)
- M.2 (2280)
- M.2 (2280)
- M.2 (2280)

## Controller
- Samsung Phoenix
- Samsung Phoenix
- Samsung Phoenix
- Samsung Phoenix

## NAND Flash Memory
- Samsung 92-Layer V-NAND 3-Bit MLC
- Samsung 92-Layer V-NAND 3-Bit MLC
- Samsung 92-Layer V-NAND 3-Bit MLC
- Samsung 92-Layer V-NAND 3-Bit MLC

## Cache Memory
- 512 MB LPDDR4
- 512 MB LPDDR4
- 1 GB LPDDR4
- 2 GB LPDDR4

## Performance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequential Read (Max.)</td>
<td>3,500 MB/s</td>
</tr>
<tr>
<td>Sequential Write (Max.)</td>
<td>3,200 MB/s</td>
</tr>
<tr>
<td>4KB Random Read (QD1) (Max.)</td>
<td>60,000 IOPS</td>
</tr>
<tr>
<td>4KB Random Write (QD1) (Max.)</td>
<td>100,000 IOPS</td>
</tr>
<tr>
<td>4KB Random Read (QD32) (Max.)</td>
<td>250,000 IOPS</td>
</tr>
<tr>
<td>4KB Random Write (QD32) (Max.)</td>
<td>550,000 IOPS</td>
</tr>
</tbody>
</table>

## Data Security
- AES 256-bit Full Disk Encryption (Class 0), TCG Opal V2.0, IEEE 1667 (Encrypted Drive)

## Weight (Max.)
- 0.3 oz. / 8 g.

## TBW (TB Written)
- 750 TBW
- 300 TBW
- 500 TBW

## Reliability (MTBF)
- 1.5 Million Hours

## Power Consumption
- 6 W
- 6 W
- 6 W

## Allowable Voltage
- 3.3 V +/- 5%

## Supporting Features
- TRIM (Required OS Support), Garbage Collection, S.M.A.R.T.
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- TRIM (Required OS Support), Garbage Collection, S.M.A.R.T.
- TRIM (Required OS Support), Garbage Collection, S.M.A.R.T.

## Operating Temperature
- 32° to 70° C
- 32° to 70° C
- 32° to 70° C
- 32° to 70° C

## Humidity
- 5% to 95%
- 5% to 95%
- 5% to 95%
- 5% to 95%

## Vibration (Non-Operating)
- 0.5 m/sec, 3 Axis
- 0.5 m/sec, 3 Axis
- 0.5 m/sec, 3 Axis
- 0.5 m/sec, 3 Axis

## Shock (Non-Operating)
- 15G, Duration 0.5 m/sec, 3 Axis
- 15G, Duration 0.5 m/sec, 3 Axis
- 15G, Duration 0.5 m/sec, 3 Axis
- 15G, Duration 0.5 m/sec, 3 Axis

## Management SW
- Magician Software
- Magician Software
- Magician Software
- Magician Software

## Limited Warranty
- 5 Years or 150 TBW
- 5 Years or 150 TBW
- 5 Years or 150 TBW
- 5 Years or 150 TBW

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