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Samsung Electronics Accelerates the NVMe Era for Consumers with Its Highest Performing 960 PRO and EVO Solid State Drives

Samsung 960 PRO and 960 EVO Solid State Drives Break Through Capacity and Performance Boundaries

SEOUL, Korea – September 21, 2016 – Samsung Electronics Co., Ltd., a worldwide leader in advanced memory solutions for more than two decades, today unveiled the Samsung 960 PRO and 960 EVO, its newest solid state drives (SSDs). The V-NAND based, M.2 form factor SSDs were built on the company's category-defining Non-Volatile Memory Express (NVMe) SSD leadership. With powerful performance, endurance and capacity topped with all new and more robust Samsung Magician software package, Samsung continues to accelerate the NVMe era.

Packed with more technology and innovation than ever, the 960 PRO and 960 EVO are designed for users who seek smaller and faster storage solutions that deliver higher bandwidth and lower latency for processing massive amounts of data for everything from gaming and large file transfers to 4K video rendering, data analytics and more on their ultra-thin notebooks and PCs.

Both the 960 PRO and 960 EVO use the Peripheral Component Interconnect Express (PCIe) Gen.3 x4 lane interface and are compliant with NVMe specifications to realize effective use of the high-speed PCIe bus and optimize both hardware and software configurations to take advantage of the NVMe SSD technology. The SSDs feature Samsung Dynamic Thermal Guard technology to manage performance during extreme workloads.

“For more than 30 years, Samsung has continued to push the boundaries of what is possible to deliver innovative consumer memory experiences.” said Un-Soo Kim, Senior Vice President of Branded Product Marketing, Memory Business at Samsung Electronics. “Our V-NAND technology for NVMe-based storage products is our most recent advancement in the NVMe era.”

The 960 PRO and 960 EVO SSDs redefine the personal computer performance, in part attributed to new controller which raises the bar of consumer SSD performance. The 960 PRO delivers peak sequential read and write transfer speeds of 3,500 MB/s and 2,100 MB/s, respectively, and random read and write IOPS of up to 440,000 and 360,000.¹

On top of being the world's fastest M.2 NVMe- SSD, the 960 PRO will also offer 2 terabyte (TB) capacity, which is the highest capacity commercially available for M.2 NVMe SSDs, along with 512GB and 1TB versions.² The 960 PRO's high density was made possible by Samsung V-NAND technology and the uniquely restructured package design. As user capacity demand trends continue to rise, the high-density 960 PRO capacities are poised to conveniently meet the needs of personal data and information storage. The 960 PRO promises additional reliability and endurance with the five-year limited warranty and up to 1.2 petabytes written (PBW), whichever occurs first, for the 2TB capacity.

“We were proud to erect the NVMe era last year with the introduction of our 950 PRO SSD. Now, with the introduction of the NVMe 960 PRO and 960 EVO SSDs, Samsung is once again taking the next step in the multi-terabyte SSD technology and the storage revolution, providing users higher capacities and speeds than

ever before within an NVMe PCIe drive to create new possibilities for consumers and business professionals,” Kim added.

The 960 EVO is available in 250GB, 500GB and 1TB capacities³ and provide users with next-generation personal computing performance. The new Samsung Intelligent TurboWrite technology makes its debut in the 960 EVO and accelerates sequential read and write speeds, that reach peaks of 3,200 MB/s and 1,900 MB/s respectively.^{4,5} The 960 EVO's random read speed reaches up to 380,000 IOPS and random write speed up to 360,000 IOPS.⁶ The 960 EVO comes with a three-year limited warranty and up to 400 terabytes written (TBW), whichever occurs first, for the 1TB capacity version.

In addition to the industry leading performance, capacity and the reliable warranty-backed experience the 960 SSDs offer, Samsung is also introducing the all-new and fully rebuilt Magician software with a new user interface with which users can control various SSD settings including firmware updates.

The 960 PRO and 960 EVO SSDs will be available worldwide starting October 2016, with manufacturer's suggested retail prices starting at \$329.99 and \$129.99 USD respectively. For more information, including warranty details⁷, please visit www.samsungssd.com.

Product	Key Specifications
960 EVO	<ul style="list-style-type: none"> • Ideal for mainstream NVMe users looking for next generation PC performance • Available in 250GB, 500GB and 1TB capacities • First Samsung product to integrate Samsung Intelligent TurboWrite technology, accelerating sequential read and write speeds <ul style="list-style-type: none"> ○ Sequential read speeds up to 3,200 MB/s ○ Sequential write speeds up to 1,900 MB/s • Three-year limited warranty up to 400 TBW for 1TB capacity, whichever occurs first. • Dynamic Thermal Guard technology to manage performance levels and prevent overheating • M.2 form factor ideal for ultra-thin notebooks and PCs. • Features PCIe Gen.3 x4 lane interface • Compliant with all NVMe specifications
960 PRO	<ul style="list-style-type: none"> • Samsung's highest capacity NVMe consumer SSD (2TB) for next generation, professional-level performance and endurance with an innovative new PCB design • Available in 512GB and 1TB and 2TB capacities • Sequential read speeds up to 3,500 MB/s • Sequential write speeds up to 2,100 MB/s • Five-year limited warranty up to 1.2 Petabytes for 2TB capacity, whichever occurs first. • Dynamic Thermal Guard technology to manage performance levels and prevent overheating • M.2 form factor ideal for ultra-thin notebooks and PCs • Features PCIe Gen.3 x4 lane interface • Compliant with all NVMe specifications

^{1, 4, 6} Sequential performance measurements based on CrystalDiskMark 5.0.2/IOMeter 1.1.0 and random performance measurements based on IOMeter 1.1.0. Performance may vary based on the SSD's firmware version, system hardware and configuration. Test system configuration: Intel® Core i7-6700K CPU@4.0 GHz, DDR3 1600MHz 8GB, OS-Windows 10 Pro x64, Chipset-Gigabyte X99

^{2, 3} 1GB=1,000,000,000 bytes by IDEMA. A certain portion of capacity may be used for system file and

maintenance use, so the actual capacity may differ from what is indicated on the product label.

⁵ Sequential Write performance measurements are based on Intelligent TurboWrite technology. The sequential write performances after Intelligent TurboWrite region are 300 MB/s(250GB),600 MB/s(500GB) and 1200 MB/s(1TB).

⁷ Samsung's warranty does not cover any costs and expenses relating to SSDs' overhaul/assembly and data recovery for repairs or replacements.

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, printers, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com.

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