

Intel® QLC Technology Leadership for Everyday Computing and Mainstream Gaming



Next gen QLC NAND SSD brings improved performance, storage responsiveness, and endurance with high capacity.

Intel® QLC technology and industry leadership brings the performance and capacity needed for today’s PC storage needs, including performance storage and the ability to manage high volumes of data. Now available is the Intel® SSD 670p 144-layer QLC-based Client SSD. .

Performance, endurance and capacity—all in a single, affordable PC drive

With up to 2TB capacity on a single drive, the Intel SSD 670p offers great value for everyday computing, optimized productivity and mainstream gaming. The thin M.2 80mm form factor is powered by Intel’s innovative QLC technology and perfect for notebooks, desktops and mobile devices.

The Intel SSD 670p includes the latest QLC technology with numerous performance improvements, including nearly 2x sequential read and a 20% endurance improvement compared to the previous gen Intel® QLC 3D NAND SSD.1 Now, a capacity-optimized SSD with NVMe (or PCIe) performance offers the right balance for everyday computing needs.

Intel QLC 3D NAND technology: storage with Intel innovation

Intel QLC Technology offers performance, high capacities, quality and reliability. The innovative floating gate architecture has tight, symmetrical layers and no cell overhead. Additionally, this dynamic architecture changes cell configuration to meet customer demands for storage capacity and performance. The result is high capacity storage at an affordable price to accelerate SSD adoption.

**High Capacity NVMe PCIe SSDs for
Everyday Computing and Mainstream Gaming**



More Value
Better Performance



Intel® QLC 3D
NAND Technology



Higher Endurance



Low Power

Features At-a-Glance	
Model	Solidigm™ 670p (formerly Intel®)
Capacity and Form Factor	80mm (single-sided) 2280-S3-M 512GB, 1TB, 2TB
Interface	PCIe 3.0x4, NVMe
Media	144-layer, Intel® 3D NAND
Performance	Sequential Read: Up to 3,500 MB/s; Sequential Write: Up to 2,700 MB/s Random 4KB Reads: Up to 310K IOPS; Random 4KB Writes: Up to 340K IOPS
Endurance	512GB: 185 TBW 1TB: 370 TBW 2TB: 740 TBW TBW=Terabytes written
Power	Active: 80mW, Idle: 25mW
Operating Temperature	0° C to 70° C
Warranty	5-year limited warranty



1. Comparing the Intel® SSD 670p to the Intel® SSD 660p. Product brief: <https://www.intel.com/content/dam/www/public/us/en/documents/product-briefs/660p-series-brief.pdf>

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.

Performance varies by use, configuration and other factors. Learn more at www.Intel.com/PerformanceIndex.

Your costs and results may vary.

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