intel®

Intel® QLC 3D NAND SSD with PCIe* Large, Affordable Capacity. Reliable Storage.

Intel delivers the industry's first PCIe* QLC 3D NAND SSD for the Data Center[1] – a new generation of large, affordable, and reliable drives

The Intel® SSD D5-P4320 delivers big, affordable, and reliable storage to the warm data tier. With 33% more bits per cell than TLC,[2] the D5-P4320 drives will enable 3x storage consolidation[3] compared to hard disk drives (HDDs), leading to lower operational costs. As the industry's first PCIe*-enabled QLC drive for the data center, the D5-P4320 provides the ability to scale to large capacities and deliver the performance needed for storage workload requirements.

Store More: Big Capacities Store Massive Quantities of Data

Aerial density describes how many bits of data are stored in a given square millimeter of storage media. The Intel® SSD D5-P4320 with QLC technology offers an aerial density advantage of 33% more bits per cell than the prior generation of Intel® 3D NAND. The result? Higher capacity, cost-effective PCIe drives optimized for read-intensive storage workloads. The D5-P4320 is currently available in a U.2 form factor with 7.68TB capacity. Available for limited deployments is the larger capacity 15.36TB Intel® SSD D5-P4326 in the U.2 and EDSFF* "Ruler" form factors, making them ideal for bulk storage requirements.

Save More: High Density Reduces Operational Cost

Today's data center storage often relies on a mix of HDD and SSD technologies. The Intel® SSD D5-P4320 delivers high capacity and lower operational cost for the capacity or "warm" data storage layer traditionally served by hybrid or HDD arrays. With its higher density, Intel® QLC SSDs means fewer drives to support, power and cool. In addition QLC SSDs have a lower annual failure rate, which further reduces costs.

Do More: PCIe Accelerates Workloads at Large Capacities

All QLC-enabled SSDs are not created equal. In addition to massive capacities, the D5-P4320 is built on the PCIe* interface, which delivers higher maximum performance than the SATA interface. The D5-P4320 SKUs allow for much denser systems while enabling performance per TB to continue scaling well beyond SATA-based QLC SSDs. The Intel® QLC SSDs, when combined with Intel® Optane™ technology, accelerate the speed of frequently accessed data, at the price and capacity of massive storage.
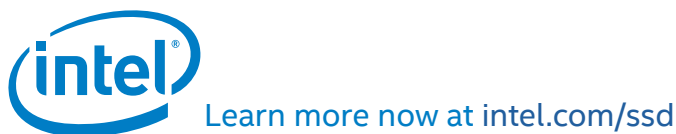
Backed by Intel Experience and Innovation

Intel brings longstanding expertise and leadership in data management to address the capacity and performance issues of today's data centers. Prepare for the future with Intel® QLC SSDs with PCIe, backed by Intel's technology and manufacturing leadership.

Features At-a-Glance

Model	Intel® SSD D5-P4320
Capacity and Form Factor	U.2 2.5" (15mm): 7.68 TB
NAND Flash Memory	64-layer, Intel® QLC 3D NAND
Interface	PCIe Gen3.1 x 4
Bandwidth	Sequential R/W up to 3200/1000 MB/s
	Random R/W up to 427K/36K IOPS
Annualized Failure Rate	≤ 0.44%
Endurance Rating	Sequential write up to 12.3 PBW Random write up to 2.8 PBW
Power Consumption	Active: 15W Idle: ~5w Enhanced power-loss data protection
Operating Temperature	0^0 C – 70^0 C SMART temperature
Warranty	5-year limited warranty

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