NOTE:

Intel SSD specifications comparison chart

Intel® Solid-State Drive	Intel® 710 SSD Series	Intel® SSD 520 Series	Intel® SSD 320 Series	Intel® SSD 310 Series
Target Applications	**Enterprise SSD:** Extreme performance, endurance and reliability for servers, enterprise storage and workstations.	**Performance SSD:** High performance storage for 2nd generation Intel® Core™ processor based notebook and desktop PCs with a 6Gb/s SATA interface. Suitable for read-intensive server applications.	**Mainstream SSD:** Performance storage for notebook, desktop and embedded PCs with a SATA 3.0Gb/s interface. Suitable for read-intensive Server applications.	**Mainstream SSD:** Performance primary drive or boot drive for very small form factor notebook, desktop and embedded PCs with a SATA 3.0Gb/s interface.
SATA Interface	SATA 3.0 Gb/s	SATA 6.0 Gb/s	SATA 3.0 Gb/s	SATA 3.0 Gb/s
Form Factor	2.5" drive	2.5" drive	2.5" / 1.8" drive[1]	mSATA (mini PCIe)
Capacities	300GB, 200GB, 100GB	480GB, 240GB, 180GB, 120GB, 60GB	600GB, 300GB, 160GB, 120GB, 80GB, 40GB	80GB, 40GB
Random IOPs[5]	R: up to 38.5K[2] IOPs W: up to 4.0K[3] IOPs	R: up to 85K[4] IOPs W: up to 70K[4] IOPs	R: up to 39.5K[4] IOPs W: up to 23K[4] IOPs	R: up to 35K[4] IOPs W: up to 6.6K[4] IOPs
Sequential Bandwidth[5] (Sustained MB/s)	R: up to 270 MB/s W: up to 210 MB/s	R: up to 550 MB/s W: up to 520 MB/s	R: up to 270 MB/s W: up to 220 MB/s	R: up to 200 MB/s W: up to 70 MB/s
Write Endurance	5 year minimum useful life with up to 3.0 PB written[2,6] using 20% over-provisioning and 8KB file size	5 year minimum useful life with up to 20GB/day written[4]	5 year minimum useful life with up to 20GB/day written[4]	5 year minimum useful life with up to 20GB/day written[4]
AES Encryption	128 bit	256 bit	128 bit	No
Limited Warranty	3 years	5 years	5 years	3 years
Works with: Intel® Data Migration Software Intel® Solid-State Drive Toolbox	Yes Yes	Yes Yes	Yes Yes	Yes Yes

[1] Capacities for 1.8 inch form factor are limited to 80 GB, 160 GB and 300 GB.

[2] IOPs and endurance specifications are for enterprise-based workloads.

[3] With enterprise-based workload and 20% over-provisioning.

[4] IOPs and endurance specifications are for client-based workloads.

[5] Performance values vary by capacity. See the data sheets for performance specifications of each capacity drive.

[6] Endurance values vary by capacity. See the Intel® SSD 710 Series data sheet for the endurance specifications of each capacity drive.