Enterprise SSD comparison Guide

Kingston's Enterprise SATA 3.0 and NVMe Data Center (DC) SSDs are designed with a stringent set of development requirements and a thorough testing process. This results in consistency for workloads requiring a balance of high random read-and-write IOPS performance. Power-failure features keep mission-critical environments up and running all day, every day. In this Enterprise SSD comparison guide, you can explore and compare technical specifications & features for all of our Data Center drives, as well as the applications they are best suited for.

	SATA			NVME	
Product Name	**DC450R SSD**	**DC500R SSD**	**DC500M SSD**	**DC1500M SSD**	**DC1000B SSD**
Interface	SATA Rev. 3.0 (6Gb/s)	SATA Rev. 3.0 (6Gb/s) – with backwards compatibility to SATA Rev. 2.0 (3Gb/s)	SATA Rev. 3.0 (6Gb/s) – with backwards compatibility to SATA Rev. 2.0 (3Gb/s)	PCIe NVMe Gen3 x4	PCIe NVMe Gen3 x4
Form Factor	2.5"	2.5"	2.5"	U.2, 2.5" x 15mm	M.2 2280
Part Number	SEDC450R/xxxG	SEDC500R/xxxG	SEDC500M/xxxG	SEDC1500M/xxxG	SEDC1000BM8/xxxG
Capacities[1]	480GB, 960GB, 1.92TB, 3.84TB, 7.68TB	480GB, 960GB, 1.92TB, 3.84TB, 7.68TB	480GB, 960GB,1.92TB, 3.84TB	960GB, 1.92TB, 3.84TB, 7.68TB	240GB, 480GB, 960GB
Read Speed[2]	Up to 560MBs	Up to 555MB/s	Up to 555MB/s	960GB, 1.92TB, 3.84TB, 7.68TB	240GB: up to 2,200MBs 480GB: up to 3,200MBs 960GB: up to 3,400MBs
Write Speed[2]	480GB: Up to 510MBs 960GB: Up to 530MBs 1.92TB: Up to 530MBs 3.84TB: Up to 525MBs 7.68TB: Up to 504MBs	480GB: Up to 500MBs 960GB: Up to 525MBs 1.92TB: Up to 525MBs 3.84TB: Up to 520MBs 7.68TB: Up to 490MBs	Up to 520MBs	960GB: 3,100MB/s 1.92TB: 3,300MB/s 3.84TB: 3,100MB/s 7.68TB: 3,100MB/s	240GB: up to 290MBs 480GB: up to 565MBs 960GB: up to 925MBs
IOPS - Maximum 4K read/ write	480GB:99,000/17,000 IOPS 960GB:98,000/26,000 IOPS 1.92TB:99,000/28,000 IOPS 3.84TB:99,000/26,000 IOPS 7.68TB:99,000/19,000 IOPS	98,000/24,000 IOPS	98,000/75,000 IOPS	960GB: 440,000/150,000 IOPS 1.92TB: 510,000/220,000 IOPS 3.84TB: 480,000/210,000 IOPS 7.68TB: 420,000/200,000 IOPS	240GB:111,000/12,000 IOPS 480GB:205,000/20,000 IOPS 9600GB:199,000/25,000 IOPS
Warranty	5 years limited[3]	5 years limited[3]	5 years limited[3]	5 years limited[3]	5 years limited[3]
Encryption	Yes	Yes	Yes	-	Yes
Endurance	0.3 DWPD	0.5 DWPD	1.3 DWPD	1 DWPD	0.5 DWPD
Power Loss Protection	-	Yes	Yes	Yes	Yes
Replacement for client SSDs in a server?	Yes	-	-	-	Yes
Application	Web Hosting, Streaming, Cloud, CDN, IoT, Edge Computing	Web Hosting, Streaming, Cloud, CDN	Web Hosting, Database, OLTP, Cloud, Caching Tier	Database, OLTP, CDN, Cloud, Caching Tier	Server Boot
Suitable for	Server/Workstation Storage Array	Server/Workstation Storage Array	Server/Workstation Storage Array	Server/Workstation Storage Array	Server/Workstation Storage Array

For more information please contact: **EUSales@kingston.eu**
To learn more visit our Partner Program at: **www.kingstonpartnerprogram.com**

Kingston
TECHNOLOGY

#KingstonIsWithYou