

SK hynix Enterprise SSD

Bring Out the Best in Your Enterprise Business with SK hynix

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B-ESSD-E01-210427-R02



Enterprise SATA SSD Read-Intensive

SE5110



- Read-intensive Enterprise SATA SSD with up to 3840GB capacity
- In volume production

Technical Specifications

Application	Media streaming, No SQL DB, VDI, MS SQL, Hadoop, Block/object
Interface	Compatible with SATA3 6.0Gbps
NAND	SK hynix 3D V6 TLC
Form Factor	Standard 2.5" 7mm

Performance

Part Number	HFS480G3H2X069N	HFS960G3H2X069N	HFS1T9G3H2X069N	HFS3T8G3H2X069N
Capacity	480GB	960GB	1920GB	3840GB
Ran. Read [IOPS]	96K	96K	96K	96K
Ran. Write [IOPS]	26K	35K	35K	35K
Seq. Read [MB/s]	555	555	555	555
Seq. Write [MB/s]	510	530	530	530

Common Features

Endurance (DWPD)	1.0
MTBF (Hours)	2.0M
UBER	1 error in 10^{17} bits transferred
Active Read (W)	Up to 3.7
Active Write (W)	Up to 4.4
Idle (W)	Up to 1.4
Operating Temp.	0~70°C

Note

- All performance measurement are under HBA conditions
- Performance matures using fio-3.9 with queue depth set to 32 / Typical
- MB/s = 10,000,000 bytes/second set to 128KB (Sequential) & 4KB (Random) alignment
- DWPD measured using JEDEC Enterprise workload

Enterprise SATA SSD Mixed-Use

SE5031



- Mixed-use Enterprise SATA SSD with 3.0 DWPD
- In volume production

Technical Specifications

Application	OLTP, Oracle Database, VDI
Interface	Compatible with SATA3 6.0Gbps
NAND	SK hynix 3D V4 TLC
Form Factor	Standard 2.5" 7mm

Performance

Part Number	HFS480G32FEH-BA10A	HFS960G32FEH-BA10A	HFS1T9G32FEH-BA10A	HFS3T8G32FEH-BA10A
Capacity	480GB	960GB	1920GB	3840GB
Ran. Read [IOPS]	96K	96K	96K	96K
Ran. Write [IOPS]	50K	54K	58K	66K
Seq. Read [MB/s]	555	555	555	555
Seq. Write [MB/s]	450	530	530	530

Common Features

Endurance (DWPD)	3.0
MTBF (Hours)	2.0M
UBER	1 error in 10^{17} bits transferred
Active Read (W)	Up to 3.7
Active Write (W)	Up to 4.6
Idle (W)	Up to 1.4
Operating Temp.	0~70°C

Note

- All performance measurements are under HBA conditions
- Performance matures using fio-3.9 with queue depth set to 32 / Typical
- MB/s = 10,000,000 bytes/second set to 128KB (Sequential) & 4KB (Random) alignment
- DWPD measured using JEDEC Enterprise workload



Datacenter NVMe SSD Read-Intensive

PE8010



- Read-intensive PCIe Gen4 SSD with robust performance in max. 7680GB capacity
- In volume production

Technical Specifications

Application	Datacenter, Server, Storage, Support SED / Non-SED
Interface	PCIe Gen4x4
NAND	SK hynix 4D V5 TLC
Form Factor	U.3 15mm

Performance

Part Number	HFS960GETFEI-D430A	HFS1T9GETFEI-D430A	HFS3T8GETFEI-D430A	HFS7T6GETFEI-D430A
Capacity	960GB	1920GB	3840GB	7680GB
Ran. Read [IOPS]	500K	850K	1100K	1100K
Ran. Write [IOPS]	65K	120K	140K	145K
Seq. Read [MB/s]	6000	6500	6500	6500
Seq. Write [MB/s]	1450	2800	3700	3700

Common Features

Endurance (DWPD)	1.0
MTBF (Hours)	2.0M
UBER	1 error in 10^{17} bits transferred
Active Read (W)	Up to 17
Active Write (W)	Up to 17
Idle (W)	Up to 5
Operating Temp.	0~70°C

Note

- Performance measured using fio-3.6/2.16 64-bit with QD set to 128 (Seq.) & 256 (Ran.) / Typical
- MB/s = 1,000,000bytes/second set to 128KB (Sequential) & 4KB (Random) alignment
- DWPD measured using JEDEC Enterprise Workload

Datacenter NVMe SSD Mixed-Use



PE8030

- Mixed-Use PCIe Gen4 SSD with robust performance in max. 6400GB capacity
- In volume production

Technical Specifications

Application	Datacenter, Server, Storage, Support SED / Non-SED
Interface	PCIe Gen4x4
NAND	SK hynix 4D V5 TLC
Form Factor	U.3 15mm

Performance

Part Number	HFS800GETFEI-D430A	HFS1T6GETFEI-D430A	HFS3T2GETFEI-D430A	HFS6T4GETFEI-D430A
Capacity	800GB	1600GB	3200GB	6400GB
Ran. Read [IOPS]	500K	850K	1100K	1100K
Ran. Write [IOPS]	140K	260K	320K	320K
Seq. Read [MB/s]	6000	6500	6500	6500
Seq. Write [MB/s]	1450	2800	3700	3700

Common Features

Endurance (DWPD)	1.0
MTBF (Hours)	2.0M
UBER	1 error in 10^{17} bits transferred
Active Read (W)	Up to 17
Active Write (W)	Up to 17
Idle (W)	Up to 5
Operating Temp.	0~70°C

Note

- Performance measured using fio-3.6/2.16 64-bit with QD set to 128 (Seq.) & 256 (Ran.) / Typical
- MB/s = 1,000,000bytes/second set to 128KB (Sequential) & 4KB (Random) alignment
- DWPD measured using JEDEC Enterprise Workload