

	SFD25A	SU120-25	SM210-25	SM130-25
Interface	SATA 3.1 (6Gb/s)	SATA 3.1 (6Gb/s)	SATA 3.1 (6Gb/s)	SATA 3.2 (6Gb/s)
NAND Flash Type	SLC	SLC-Lite	MLC	MLC
Capacity	8GB...256GB	16GB...128GB	32GB...512GB	512GB, 1TB
Sustained Read/Write (MB/sec)	530/440, 128GB high speed model	405/160, 128GB model	510/380, 128GB model	520/500, 512GB model
IOPs 4K (Random Read/Write)	81K/79K, 128GB high speed model	30K/23K, 128GB model	81K/79K, 128GB model	91K/89K, 512GB model
Number of Program/Erase cycles	~ 23 400	~ 9 000	~ 2 200	~ 1 700
DRAM Cache	Yes	No	Yes	Yes
ECC Engine	Built-in 40-bit per 1K bytes BCH ECC	Built-in 72-bit per 1K bytes BCH ECC	Built-in 40-bit per 1K bytes BCH ECC	Built-in 75-bit per 2K bytes BCH ECC
Standard Operating Temperature (°C)	0...70°C	0...70°C	0...70°C	0...70°C
Extended Operating Temperature (°C)	-40...85°C	-40...85°C	-40...85°C	-40...85°C
Storage Temperature (°C)	-40...100°C	-40...85°C	-40...100°C	-40...100°C
Thermal Sensor	Optional	No	Optional	Optional
Sleep Mode	Optional	Optional	Yes	No
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
Vibration	Operation: 7.69 Grms, 20...000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15 G, 10...2000 Hz/sine	Operation: 7.69 Grms, 20...2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15 G, 10...2000 Hz/sine	Operation: 7.69 Grms, 20...2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15 G, 10...2000 Hz/sine	Operation: 7.69 Grms, 20...2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15 G, 10...2000 Hz/sine
Operating Voltage	5.0 V ± 5%	5.0 V ± 5%	5.0 V ± 5%	5.0 V ± 5%
Power Consumption	Active mode: 500 mA, Idle mode: 105 mA	Active mode: 320 mA, Idle mode: 75 mA	Active mode: 680 mA, Idle mode: 60 mA	Active mode: 1 040 mA, Idle mode: 95 mA
Dimension (L x W x H)	100 x 69.8 x 9.3/100 x 69.8 x 7 mm	100 x 69.8 x 7 mm	100 x 69.8 x 9.3/100 x 69.8 x 7 mm	100 x 69.8 x 7 mm
MTBF (hours)	>2 000 000	>1 000 000	>1 000 000	>1 000 000