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SSD IDE4K 1.8" and 2.5"

The Affordable Flash Disk Solution

NOTE: Please consult the End of Life document for pertinent product availability information.

The SanDisk SSD IDE4K 1.8" and 2.5" (formerly IDE 4000) are solid-state flash disks with no moving parts. The IDE4K provides capacities up to 8192 Mbytes (8 Gbytes) with improved cost structure, while supporting both PIO and DMA transfer modes.

Designed for telecommunication, public safety, military, aerospace and point of sale systems, the IDE4K is a true drop-in replacement for rotating disks where top reliability is required while maintaining affordable cost.

IDE 4K 1.8" and 2.5" Specifications

Disk Capacity	Unformatted (Mbytes)
128, 256, 384, 512, 640, 768, 1024, 1280, 1536, 1792, 2048, 2560, 3072, 3584, 4096, 5120, 6144, 7168, 8192	

IDE Compatibility

ANSI -X3.298 -1997 (ATA -3); ANSI -X3.279 -1996 (ATA -2)

Performance

Burst	16.6
Read/Write:	MBytes/sec
Sustained Read:	3.8 MBytes/sec
Sustained Write:	3.4 MBytes/sec
Access time:	<0.1 ms

Physical

Form factor:	1.8", 2.5"
Mounting:	Industry standard
Case dimensions (mm):	
1.8"	76.3(L) X 51(W) X 8.6(H)
2.5"	100.2(L) X 69.8(W) X 7.4(H)
Weight:	
1.8"	<30 gr for 8192 MB unit
2.5"	<90 gr for 8192 MB unit

Environmental

Operating temperature:	
Commercial:	0°C to +70°C
Extended/Industrial:	-40°C to +85°C
Storage temperature:	-55°C to +95°C
Humidity:	8% to 95% relative, non-condensing
Operating altitude:	80,000 feet
Operating shock:	1,000 G (half sine 0.5 ms)
Operating vibration:	15G RMS

Power

Input voltage:	3.3 -5 VDC
Power consumption for 8192 MB unit:	
Idle/Sleep mode:	<30 mW
Read/Write mode:	<130 mW

Reliability

MTBF:	1,470,873 hours MTBF for 8192 MB Based on Telcordia SR -332, GB, 25°C
EDC/ECC:	On the fly EDC/ECC
Reliability features	
Built-in power-up self-test (BIT)	

Endurance

Read unlimited
On the fly controller wear leveling

RoHS Compliant

The product is available in RoHS (Pb-free) and Pb (Leaded) versions.



Compliance

UL, CE, FCC Part 15 Class B, EN 55022 Class B, CISPR 22 Class B (MIC), V -3/2001.04 Class B (Japan), AS/NZS 3548 Class B (Australia/NZ), BSMI CNS 13438 Class B (Taiwan), CAN/CSA C108.1 Class B (Canada), CFR 47 FCC Class B, EN 55024, EN 61000 (EMC)

Limited Warranty

3 years

Ordering Information

IDE4K 1.8": IDE -4K-18-CCCC
IDE4K 2.5": IDE -4K-25-CCCC -T-P
CCCC: Unformatted capacity (MB) 128, 256, 384, 512, 640, 768, 1024, 1280, 1536, 1792, 2048, 2560, 3072, 3584, 4096, 5120, 6144, 7168, 8192

T: Temperature range

Blank - Commercial:	0°C to +70°C
X - Extended:	-40°C to +85°C

P: RoHS Compatibility

Blank	- Non RoHS version
P	- RoHS version

Note: 1 megabyte (MB) = 1 million bytes; 1 gigabyte (GB) = 1 billion bytes. Some of the listed capacity is used for formatting and other functions, and thus is not available for data storage.
Read more.

Additional Info

SSD IDE4K EOL announcement (PDF)