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SSD (formerly FFD) UATA 2.5 "

Outstanding Flash Disk Performance

The SanDisk SSD UATA 2.5" (formerly FFD 2.5" Ultra ATA) is a state - of - the - art solid - state flash disk, based on NAND flash technology, that provides the functionality of a hard disk with no moving parts. SSD UATA 2.5" is an ideal, rugged storage solution for mission - critical applications that must operate under harsh environmental conditions.

SSD UATA 2.5" delivers outstanding reliability and enhanced endurance thanks to SanDisk TrueFFS technology, which applies dynamic wear - leveling and bad block management. Due to its unique design, SSD UATA 2.5" provides high - performance sustained read and write rates up to 100 MBytes/sec and supports Up to Ultra DMA 5.

SSD UATA 2.5" is fully compatible with the ATA - 6 interface, and has the same mechanical dimensions and mounting holes of traditional mechanical disks. It is a true drop - in replacement for rotating 2.5" ATA disks with highest reliability.

Specifications

Capacity

Unformatted (Mbytes)	1, 2, 4, 8, 12, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, 104, 112, 120, 128

IDE Compatibility

ATA - 6/ATA - 5/ATA - 4/ATA - 3/ATA - 2

Performance

Burst Read/Write:	100 MBytes/sec
Sustained Read:	45 MBytes/sec
Sustained Write:	40 MBytes/sec
Access time:	<0.04 ms

Physical

Form factor:	2.5"
Mounting:	SFF standard, 44 pins connector
Case dimensions (mm):	100.2(L) X 69.8(W) X 9.4 to 21.4(H)
Weight:	0.1 Kg for 16GB; 0.22 Kg for 128GB

Environmental

Operating temperature	
Commercial:	0°C to +70°C
Enhanced:	-25°C to +75°C
Extended:	-40°C to +85°C
Storage temperature:	-55°C to +95°C
Humidity:	5% to 95% relative, non - condensing
Operating altitude:	up to 80,000 feet
Operating shock:	1,500G, MIL - STD - 810F
Operating vibration:	16.3G RMS (random, 20Hz to 2000Hz; 3 vibration axes), MIL - STD - 810F

Reliability

MTBF	1,485,397 operating hours MTBF for 16GB based on Telcordia SR - 332, GB, 25°C
EDC/ECC	Embedded EDC/ECC, based on BCH algorithm
BER (Bit Error Rate)	$<10^{-20}$

Reliability features:

Built - in power - up self - test (BIT)
Manual and automatic self - diagnostics
TrueFFS bad block management
Data integrity under power - cycling
S.M.A.R.T (Self - Monitoring, Analysis and Reporting Technology) remote monitoring

Endurance

Unlimited read cycles
TrueFFS dynamic wear - leveling
Garbage collection process

Enhanced Security Erase

Entire disk security erase in seconds
Partial security erase
Auto - resume security erase/sanitize on power interrupt
Sanitize complies with NISPOM DoD 5220.22 - M, NSA 130 - 2, Air Force AFSSI 5020, Army 380 - 19, Navy NAVSO P - 5239 - 26 and IREC (IRIG) 106 NTISSP - 9
Secure erase/sanitize software interrupt, hardware interrupt optional

RoHS Compliant

Warranty

5 years

Ordering Information

SDATH - CCCG - 000000

SD:	Prefix: SanDisk	
A:	ATA interface	
T:	Operating Temperature Range	
	Blank - Commercial:	0°C to +70°C
	N - Enhanced:	-25°C to +75°C
	X - Extended:	-40°C to +85°C
H:	Case Height	
	A - 9.4mm up to 16GB	
	B - 13.4mm up to 64GB	
	C - 17.4 mm up to 112GB	
	D - 21.4 mm up to 128GB	
CCC:	Unformatted Capacity (Gbytes):	001,002, 004, 008, 012, 016, 024, 032, 040, 048, 056, 064, 072, 080, 088, 096, 104, 112, 120, 128
G:	Gbytes	

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

Product Photos
Product Specifications