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**SSD (formerly FFD) SATA 2.5**

Reliable, High Capacity SATA Drive



The SanDisk SSD SATA 2.5" (formerly FFD 2.5" Serial 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 SATA 2.5" is an ideal, reliable storage solution for mission-critical applications that must operate under harsh environmental conditions, as well as for the telecommunication and blade server industry that must support 99.999% availability.

SSD SATA 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 SATA 2.5" provides high-performance sustained read and write rates up to 150Mbytes/sec and supports Serial ATA 1.0a standard.

SSD SATA 2.5" is fully compatible with the SATA 1.0a 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" Serial ATA (SATA) and Serial Attached SCSI (SAS) disks with highest reliability and operating mean time between failure (MTBF) hours.

Specifications

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

**Compatibility**  
Serial ATA: High-speed serialized AT attachment, revision 1.0a, Serial ATA working group

**Performance**  
Burst Read/Write: 150 Mbytes/sec (1.5 Gbits/sec)  
Sustained Read: 44 Mbytes/sec  
Sustained Write: 40 Mbytes/sec  
Access time: <0.04 ms

**Physical**  
Form factor: 2.5"  
Case dimensions (mm): 100.2(L) X 69.85(W) X 9.5 to 22.5(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, 10Hz to 2000Hz; 3 vibration axes), MIL-STD-810F

**Reliability**  
MTBF: 1,180,777 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<sup>-20</sup>

**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**  
SDSTH - CCCC-000000  
SD: Prefix: SanDisk  
S: SATA 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 - 9.5mm up to 16GB  
B - 14.5mm up to 64GB  
C - 18.5mm up to 112GB  
D - 22.5mm 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