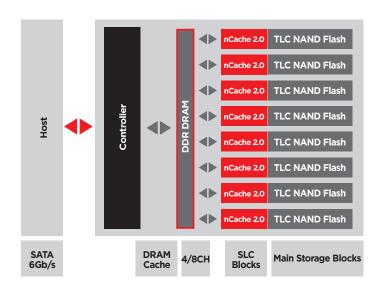


Based on state of the art 1Ynm TLC flash technology, the SanDisk X300DC SSD delivers high read performance with high reliability and low power. It features nCache™ 2.0, SanDisk's next generation tiered caching technology, designed to improve SSD responsiveness for burst write workloads.

The X300DC SSD is available in 2.5" 7mm cased with capacity of 960GB.



SATA SAS PCIe

X300DC KEY FEATURES

NCACHE 2.0 - IMPROVES RESPONSIVENESS FOR BURST WRITE WORKLOADS

DATAGUARD CLIENT - PROVIDES AN
ADDITIONAL LAYER OF DATA PROTECTION
USING PAGE-LEVEL STRIPING WITH
DISTRIBUTED PARITY

960GB DRIVE CAPACITY

2.5" 7MM FORM FACTOR

TESTED FOR JEDEC ENTERPRISE WORKLOAD

SATA REVISION 3.2 6GB/S INTERFACE

nCache™ 2.0 Technology

nCache 2.0 uses a combination of both SLC and TLC flash blocks to improve endurance, increase efficiency, and boost performance. By writing all the data to SLC blocks first, the write amplification on the TLC blocks is reduced. The new On Chip Copy (OCC) mechanism then independently copies the SLC cache blocks into the TLC blocks in main storage, thus offloading the burden from the controller and DDR resources. This leaves the controller and DRAM cache free for other tasks.

DataGuard Client™

The X300DC SSD also includes a new and robust on-the-fly error handling mechanism called DataGuard Client. It uses page-level striping with distributed parity for an added layer of data protection and can recover errors that other traditional error correction mechanisms cannot.

Dependibility

With the improved cost structure introduced in X300DC SSD and the use of SanDisk's most manufactured flash technology, there is continuity of supply, better flash availability, improved TCO, and shorter ROI times.

SanDisk is a trademark of SanDisk Corporation, registered in the United States and other countries. nCache is a trademark of SanDisk Corporation. Other brand names mentioned herein are for identification purposes only and may be the trademarks of their respective holder(s).

Contact information

business partners@s and is k.com

Specifications subject to change without notice.

¹ Up to stated speed. Performance measured with IOMETER 2006 as a secondary drive on Dell PowerEdge R810 with Intel* 5520 & Quad Core Intel Xeon E5603 1.60Ghz, 32GB DRAM, Windows Server 2012 x64 with LSI AHCI driver StorPort V2.0.490. For the sustained IQ, Q depth=32, aligned with the respective transfer size (i.e. 128KB transfer size and aligned at 128KB, 4K transfer size and aligned at 44KB).

² Endurance of the X300DC SSD is calculated using JEDEC enterprise workload (JESD219A), DWPD = Drive Witters Per Day

³ MTTE = Mean Time To Failure based on internal testing using Telcordia stress nat testing.

SanDisk[®]

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SanDisk® X300DC SSD Product Features and Specifications

Device	SanDisk X300DC SSD		
Form Factor	2.5-inch 7mm Cased		
Interface	SATA III (6 Gb/s) backward compatible to		
	SATA II (3 Gb/s) and SATA I (1.5 Gb/s)		
Product Dimensions & Weight	2.5": 7.00mm x 69.85mm x 100.5mm @ 58g		
Performance ¹	960GB		
Sustained Seq. Read 128KB up to	520 MB/s		
Burst Seq. Write 128KB up to	450 MB/s		
Sustained Seq. Write 128KB up to	240 MB/s		
Sustained Rand Read 4KB up to	68k IOPS		
Burst Rand Write 4KB up to	67k IOPS		
Sustained Random Write 4KB up to	2.25k IOPS		
Endurance ²			
JEDEC Enterprise Workload	0.2 DWPD		
Seq. Write Workload	1.25 DWPD		
Power			
Supply Voltage	5V ± 5%		
Max In-Rush Current	1.5A		
Reliability			
MTTF ³	Up to 1,752,000 hours		
Error Rate	1 error per 10 ¹⁶ bits read		
Environmental			
Operating Temperatures	0°C to 70°C		
Non-operating Temperatures	-55°C to 85°C		
Operating Vibration	5.0 gRMS, 10 - 2000 Hz, 3 axes		
Non-operating Vibration	4.9 gRMS, 7 - 800 Hz, 3 axes		
Shock	1,500 G @0.5 msec half sine		
Certifications	FCC, UL, TUV, KC, BSMI, VCCI		

Ordering Information

Model	Form Factor	Capacity	SKU#
SanDisk X300DC	2.5" 7MM	960GB	SD7SB7S-960G