WD®

WD SiliconDrive® III
Advanced Solid State Storage

WD SiliconDrive® III

120 GB SATA
SSD-D0120SC-5000

Western Digital Technologies, Inc.
Product of the U.S.A.

The WD SiliconDrive III SSD product family offers faster read/write speeds and increased capacities, enabling a wider range of markets and applications to benefit from WD's advanced solid state storage technology.

· High performance
· 24x7 reliability
· Low total cost of ownership

Product Highlights

- True drop-in hard drive replacement
- Multi-year product lifecycle
- Field-proven in thousands of customer applications

Product Features

PowerArmor®

Eliminates drive corruption from power disturbances

SiSMART®

Delivers real-time data on SSD useable life

LifeEST™

Methodology forecasts SSD endurance in months or years

SolidStor®

Ensures data integrity and multi-year product life

Markets

- Automotive and transportation
- Data center media streaming appliances
- Industrial automation
- Netcom

- Medical
- Video surveillance

Applications

- Data base or multimedia servers
- Digital graphics
- NAS server and storage arrays
- SAN switches

- Storage appliances
- Telecom and networking infrastructure
- Video on demand
- Wireless infrastructure

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Specifications[1]	15 GB	30 GB	60 GB	90 GB	120 GB
User sectors per drive	29,323,728	58,626,288	117,231,408	175,836,528	234,441,648
Model numbers (form factor/interface)					
2.5-inch/SATA 3 Gb/s	SSD-D0015S(x^2)-5000	SSD-D0030S(x^2)-5000	SSD-D0060S(x^2)-5000	SSD-D0090S(x^2)-5000	SSD-D0120S(x^2)-5000
RoHS compliant[2]	RoHS 6/6				
Performance					
Target Performance					
Interface Burst Speed	3 Gb/s				
Sustained Read Speed	100 MB/s				
Sustained Write Speed	68 MB/s				
Operational Lifespan					
Read	Unlimited				
Write (service life @ GB/day)					
120 GB capacity	22.9 years @ 1434.4				
90 GB capacity	17.2 years @ 1434.4				
60 GB capacity	11.5 years @ 1434.4				
30 GB capacity	5.7 years @ 1434.4				
15 GB capacity	2.9 years @ 1434.4				
Reliability/Data Integrity					
MTBF (hours)	3,000,000				
Non-recoverable read errors per bits read	<1 in 10^{15}				
Latency (Command to DRQ)	250 µs (typical)				
Limited warranty[3]	5 years				
Power Management					
DC input voltage	5.0±10%				
Sleep (standby watts)	0.7W				
Read (peak watts)	1.5W				
Write (peak watts)	2.0W				
Environmental					
Operating Temperature					
Standard Temperature (C)[4]	0°C to 70°C				
Extended Temperature (I)[4]	-40°C to 85°C				
Non-Operating Temperature	-55°C to 125°C				
Relative Humidity	8% to 95% non-condensing				
Operating Shock	1000G, Half-sine, 0.5 ms Duration, 50g Pk, MIL-STD-810F, Method 516.5, Procedure I				
Vibration	16.3gRMS, MIL-STD-810F, Method 514.5, Procedure I, Category 24				
Altitude	80,000 ft., MIL-STD-810F, Method 500.4, Procedure II				
Physical Dimensions					
Length (in./mm, max)	3.937/100				
Width (in./mm, ± .01 in.)	2.75/69.85				
Height (in./mm, max)	0.370/9.40				
Weight (lb./gm, max)	0.046/100				

[1]As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 3.0 Gb/s or SATA 1.5 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

[2]WD complies with the Restriction of Hazardous Substances (RoHS) Directive 2002/95/EC of the European Parliament, which is effective in the EU beginning July 1, 2006. RoHS aims to protect human health and the environment by restricting the use of certain hazardous substances in new equipment, and consists of restrictions on lead, mercury, cadmium, and other substances.

[3]The term of the limited warranty may vary by region. Visit support.wdc.com/warranty for details.

[4]x=C (0-70°C) or I (-40°C-85°C)

For service and literature:
support.wdc.com
www.westerndigital.com

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800.832.4778	Spanish
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RoHS COMPLIANT