

SiliconDrive II

Advanced Solid State Storage

High performance
24X7 reliability
Low total cost of ownership



Form Factor

2.5-inch, CompactFlash

Interface

PATA

Performance

R/W Speed
34/19 MB/s

Capacity Range

1 GB to 32 GB

Model Numbers

SSD-Cxxx(x)-4300
SSD-Dxxx(x)-4300

Note: Not all products may be available in all regions of the world.

SiliconDrive II

The SiliconDrive® II product family is an ideal replacement for hard drives and flash cards in critical storage applications. Advanced solid state storage technologies integrated into every SiliconDrive II increase performance and reliability and deliver a lower total cost of storage ownership.

Not All Solid State Storage is Engineered the Same

The SiliconDrive II product family features patented and patent-pending advanced solid state storage technologies engineered to overcome the industry's toughest problems.

- **PowerArmor®** eliminates drive corruption from power disturbances
- **SiSMART®** delivers real-time data on SSD useable life
- **SolidStor®** ensures data integrity and multi-year product life
- **LifeEST™** methodology forecasts SSD endurance in months or years

Mechanical Scalability

The SiliconDrive II product family delivers mechanical scalability from a 2.5-inch to CompactFlash form factor with no compromise in performance or reliability.

Market and Applications

Applications for SiliconDrive II products range from enterprise edge routers and servers to rugged wearable computers on the battlefield to casino gaming machines and medical devices. SiliconDrive II products deliver the high performance, high reliability, and low total cost of storage ownership required in rigorous OEM applications.

Vertical Markets

- Automotive and transportation
- Data center media streaming and specialty appliances
- High performance network devices
- Medical equipment
- Military storage systems
- Video surveillance

SiliconDrive II

Advanced Solid State Storage

Drive Specifications¹

Formatted capacity range	1 GB to 16 GB	4 GB to 32 GB
Form factor	CF ATA-5	2.5-inch
WD model number	SSD-CXXX(x)-4300	SSD-Dxxx(x)-4300



Performance Specifications

	PATA Drives	PATA Drives
Target Performance		
Interface Burst Speed	66 MB/s	66 MB/s
Sustained Read Speed	34 MB/s	34 MB/s
Sustained Write Speed	19 MB/s	19 MB/s
Latency (Command to DRQ)	2 ms	2 ms
MTBF (Hours)	4,000,000	4,000,000
Error rate (non-recoverable)	<1 in 10 ¹⁴ bits read	<1 in 10 ¹⁴ bits read
Operational Lifespan		
Read	Unlimited	Unlimited
Write	-	-
32 GB capacity	-	217.6 Years @ 402.9 GB
16 GB capacity	108.8 Years @ 402.9 GB	108.8 Years @ 402.9 GB
8 GB capacity	54.4 Years @ 402.9 GB	54.4 Years @ 402.9 GB
4 GB capacity	27.2 Years @ 402.9 GB	27.2 Years @ 402.9 GB
2 GB capacity	13.6 Years @ 402.9 GB	-
1 GB capacity	6.8 Years @ 402.9 GB	-



Power Management

	PATA		PATA
DC Input Voltage	3.3 ± 10%	5.0 ± 10%	5.0 ± 10%
Sleep (standby watts)	0.00165	0.005	0.5
Read (peak watts)	0.33	0.6	0.6
Write (peak watts)	0.33	0.6	0.6

Environmental Specifications

Operating Temperature	
Standard Temperature (C) ²	0°C to 70°C
Extended Temperature (I) ²	-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 Specifications

	PATA Drives—ATA-5	PATA Drives—2.5-inch
Length	1.433 in. (36.4 mm)	3.937 in. (100 mm)
Width	1.685 in. (42.8 mm)	2.75 in. (69.85 mm)
Height	0.130 in. (3.3 mm)	.370 in. (9.40 mm)
Weight	0.05 lb. (110 gm)	0.046 lb. (100 gm)

Limited Warranty⁴

Limited warranty	5 years
------------------	---------

For service and literature:

support.wdc.com

www.westerndigital.com

800.ASK.4WDC	North America
800.832.4778	Spanish
+800.6008.6008	Asia Pacific
00800.27549338	Europe
	(toll free where available)
+31.880062100	Europe/Middle East/ Africa

Western Digital, WD, the WD logo, SiliconDrive, PowerArmor, and SiSMART are registered trademarks; in the U.S. and other countries; and FIT Lab and LifeEST are trademarks of Western Digital Technologies, Inc. Other marks may be mentioned herein that belong to other companies. Product specifications subject to change without notice.

© 2009 Western Digital Technologies, Inc. All rights reserved.

Western Digital
20511 Lake Forest Drive
Lake Forest, California 92630
U.S.A.

2879-771329-A00 June 15, 2009

¹As 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.

²x=C (0-70°C) or I (-40°C-85°C)

³WD 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.

⁴The term of the limited warranty may vary by region. Visit support.wdc.com/warranty for details.