



WD SiliconDrive® II CF

Advanced Solid State Storage

WD SiliconDrive II products are engineered exclusively for critical storage applications of the embedded and communications markets. Advanced solid state storage technologies integrated into every WD SiliconDrive II CF increase performance and reliability and deliver a low total cost of ownership.



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

Product Highlights

- Multi-year product service life
- Integrated PowerArmor® and SiSMART® technologies
- 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

- Netcom
- Industrial automation
- Medical
- Video surveillance
- Automotive and transportation

Applications

- Telecom and networking infrastructure
- Wireless infrastructure
- SAN switches
- Storage appliances
- Diagnostic equipment
- Industrial PCs
- Digital graphics

PUT YOUR LIFE ON IT®



WD SiliconDrive II CF

Specifications ¹	WD SiliconDrive II CF	WD SiliconDrive II CF
Model number	SSD-Cxxx(x)-4600	SSD-Cxxx(x)-4500
Formatted capacity range	128 MB to 4 GB	2 GB to 16 GB
Form factor	CF	CF
Interface	PATA, CF ATA-3	PATA, CF ATA-5
RoHS compliant ²	RoHS 6/6	RoHS 6/6
Performance		
Target Performance		
Interface Burst Speed	Up to 16.7 MB/s	Up to 66 MB/s
Sustained Read Speed	Up to 14 MB/s	Up to 34 MB/s
Sustained Write Speed	Up to 6 MB/s	Up to 19 MB/s
Operational Lifespan = LifeEST™		
Service Life	10 years	10 years
Write (Maximum GB written per day)	-	-
16 GB capacity	-	428
8 GB capacity	-	214
4 GB capacity	107	107
2 GB capacity	53	53
1 GB capacity	27	-
512 MB capacity	14	-
256 MB capacity	7	-
128 MB capacity	3	-
Reliability/Data Integrity		
MTBF (hours)	> 4,000,000	> 1,750,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	
Limited warranty ³	5 years	
Power Management		
DC input voltage	3.3V±10% 5.0±10%	3.3V±10% 5.0±10%
Sleep (standby watts)	0.003 0.0075	0.002 0.0065
Read (peak watts)	0.35 0.62	0.52 0.90
Write (peak watts)	0.36 0.55	0.48 0.74
Environmental		
Operating Temperature Standard Temperature (C) ⁴ Extended Temperature (I) ⁴	0°C to 70°C -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)	1.433/36.4	1.433/36.4
Width (in./mm, ± .01 in.)	1.685/42.8	1.685/42.8
Height (in./mm, max)	0.130/3.3	0.130/3.3
Weight (lb./gm, max)	0.05/110	0.05/110

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.

²WD 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.

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

⁴x=C (0-70°C) or I (-40°C-85°C)

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