



# WD SiliconEdge™ Blue™

Lightning Fast and Rugged at a Great Price

Buy with total confidence.

WD has been a storage pioneer and leader since 1970. The award-winning WD brand delivers cost-effective solid state storage for a wide variety of applications requiring high speed, high reliability, and long life.

**From your PC to your laptop, WD SiliconEdge Blue provides maximum compatibility, performance, portability, and ruggedness.**



## Product Highlights

- Fast data transfer – up to 250 MB/s read, 170 MB/s write
- Low power consumption – 2.2 W read, 3.5 W write
- High tolerance to shock and vibration
- Plug-and-play compatibility

## Product Features

### Advanced Wear-Leveling

WD's wear-leveling algorithm uses a combination of dynamic and static wear-leveling that writes data evenly over the entire drive, preventing drive wear out and lengthening drive life.

### Data Integrity Protection

Prevents data loss from unexpected power loss during write operations to ensure data integrity and availability.

### Advanced Error Correction

Enables error free data transmission by deploying advanced error correction technologies to detect and correct errors resulting from signal noise or other kinds of interference that causes data distortion.

### ATA SMART Commands

Self-Monitoring Analysis and Reporting Technologies (SMART) detect and warn when an SSD needs replacement.

### Native Command Queuing (NCQ)

Increases the performance of SATA drives by placing read / write commands in the optimal sequential order for the fastest execution.

### WD Certified

WD's drives are rigorously tested over months in WD's Functional Integrity Testing (F.I.T.) Lab to ensure worry-free compatibility and peak performance with hundreds of systems.

## Markets

- Gaming and multimedia PCs
- High performance computing
- Mobile computing
- Ruggedized computing systems

## Applications

- High definition video editing
- High-end gaming
- Home servers and workstations
- Notebook and Netbook PCs

PUT YOUR LIFE ON IT®



# WD SiliconEdge Blue

Specifications <sup>1</sup>			
Model number	SSC-D0064SC-2100	SSC-D0128SC-2100	SSC-D0256SC-2100
Formatted capacity	64 GB	128 GB	256 GB
User sectors per drive	125,045,424	250,069,680	500,118,192
Form factor	2.5-inch		
Interface	SATA 3 Gb/s		
Interface connector	SATA		
Hot swappable	Yes		
RoHS compliant <sup>2</sup>	RoHS 6/6		
Performance			
Interface burst speed	3 Gb/s		
Maximum read transfer rate	Up to 250 MB/s		
Maximum write transfer rate	Up to 170 MB/s		
Sustained read transfer rate	Up to 250 MB/s		
Sustained write transfer rate	Up to 140 MB/s		
4 KB random read IOPS	Up to 5000 IOPS		
4 KB random write IOPS <sup>3</sup>	Up to 5000 IOPS		
Reliability/Data Integrity			
MTBF (hours)	1,400,000		
Non-recoverable read errors per bits read	<1 in 10 <sup>15</sup>		
Limited warranty <sup>4</sup>	3 years		
Operational Lifespan - LifeEST™			
Read	Unlimited		
Service Life	3 years		
Maximum GB written per day	17.5	35	70
Power Management			
DC input voltage	5V		
Standby (idle watts)	0.6W		
Read (peak watts)	2.2W		
Write (peak watts)	3.5W		
Environmental			
Temperature (°C)	0 to 70		
Operating	-55 to 125		
Non-operating			
Relative humidity (non-condensing)	8% to 95%		
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 f.t, MIL-STD-810F, Method 500.4, Procedure II		
Physical Dimensions			
Length (in./mm, max)	3.9/98.9		
Width (in./mm, ± .01 in.)	2.75/69.86		
Height (in./mm, max)	0.4/9.5		

<sup>1</sup>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](http://www.sata-io.org) for details.

<sup>2</sup>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.

<sup>3</sup>Average IOPS of 100% random 4k writes across 1,000,000 LBAs.

<sup>4</sup>The term of the limited warranty may vary by region. Visit [support.wdc.com/warranty](http://support.wdc.com/warranty) for details.

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