


# Specifications for the 320 GB WD AV Serial ATA hard drive (WD3200AVJS)

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Specifications for the 500 GB WD AV Serial ATA hard drive (WD3200AVJS).

Model Number	WD3200AVJS
Formatted Capacity <sup>1</sup>	320,072 MB
Used Sectors Per Drive	625,142,448
Interface	300 MB/s Serial ATA 2.0 (backwards compatible with Serial ATA 1.0)
Bytes Per Sector	512
Dedicated Landing Zone	Yes
Actuator Latch/Auto Park	Yes

<sup>1</sup> Western Digital defines a megabyte (MB) as 1,000,000 bytes and a gigabyte (GB) as 1,000,000,000 bytes

Jumper Settings for SATA 3.0 Gb/s 3.5" Hard Drives and Caviar Black WD1002FAEX-00Y9A0 SATA 6.0 Gb/s Hard Drives:

	<p><b>Default</b></p> <p>Standard configuration (no jumper added). Spread spectrum clocking (SSC) and OPT1 disabled.</p>
	<p><b>SSC enabled</b></p> <p>SSC enabled (jumper on pins 1-2).</p>
	<p><b>OPT1 enabled</b></p> <p>OPT1 enabled (jumper on pins 5-6). 1.5 Gb/s data transfer speed activated.</p>

Jumper Settings For SATA 6.0 Gb/s 3.5" Hard Drives:

	<p><b>Default</b></p> <p>Standard configuration (no jumper added). Spread spectrum clocking (SSC) and PHY disabled.</p>
	<p><b>SSC enabled</b></p> <p>SSC enabled (jumper on pins 1-2).</p>
	<p><b>PHY enabled</b></p> <p>PHY enabled (jumper on pins 5-6) 3.0 Gb/s data transfer speed activated</p>

Data Transfer Rate

(maximum)	300 MB/s max <sup>2</sup>
- Buffer to Host	126 Mbytes/s sustained
- Host to/from Drive	(minimum)
Interleave	1:1
Average Read Seek	8.9 ms (average)

Rotational Speed	7200 RPM
Read Cache	Adaptive
Write Cache	Yes
Buffer	8 MB
Drive Ready Time (from power on)	6.5 sec average
Start/Stop Cycles	50,000 min
Error Rate (non-recoverable)	<1 in 10 <sup>14</sup> bits read

<sup>2</sup>Maximum burst rate running the specified PIO, DMA, Ultra ATA, or Serial ATA transfer mode.

<sup>3</sup> On reads and writes.

Height	1.028 in. (25.4 mm) max
Length	5.787 in. (147.0 mm) max
Width	4.0 in. (101.6 mm) ± .01 in.
Weight	1.32 lb. (0.60 kg) ± 10%

Mode	<sup>12</sup> V (± 10%)	5 V (± 5%)	Power
Read/Write <sup>4</sup>	410 mA	675 mA	8.3 W
Seek	525 mA	625 mA	15.1 W
Idle	390 mA	600 mA	7.7 W
Standby	6 mA	180 mA	1.0 W
Sleep	6 mA	180 mA	1.0 W

<sup>4</sup>20% duty cycle.

### Shock

Operating (2ms) 65G

Non-operating (2ms) 350G

Half sine wave measured in 2 ms duration, measured without isolation.

### Vibration

Operating	- Random	0.008 g <sup>2</sup> /Hz (10 to 300 Hz)
	- Linear	20-300 Hz, 0.75G (0 to peak)
Non-operating	- Linear	20-500 Hz, 0.195 inches (dbl amp)
		20-500 Hz, 4G (0 to peak)

### Operating Temperature and Humidity

Temperature 0°C to 60°C

Humidity 5-95% RH non-condensing

Thermal Gradient 20°C/hour (maximum)

### Non-Operating Temperature and Humidity

Temperature -40°C to 65°C (-40°F to 149°F)

Humidity 5-95% RH non-condensing

Thermal Gradient 30°C/hour (maximum)

**Acoustics (average)**

Idle Mode<sup>6</sup> 25 dBA

Seek Mode 0<sup>6</sup> 26 dBA

Warranty Period [Warranty Length](#)

<sup>5</sup>No non-recoverable errors during operating tests or after non-operating tests.

<sup>6</sup>Sound power level.