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Specifications for the WD 2.5 inch Scorpio Black SATA hard drives (model WDxxxxBJKT, WDxxxxBEKT).

Question

Specifications for the following WD 2.5 inch Scorpio Black Serial ATA hard drives.

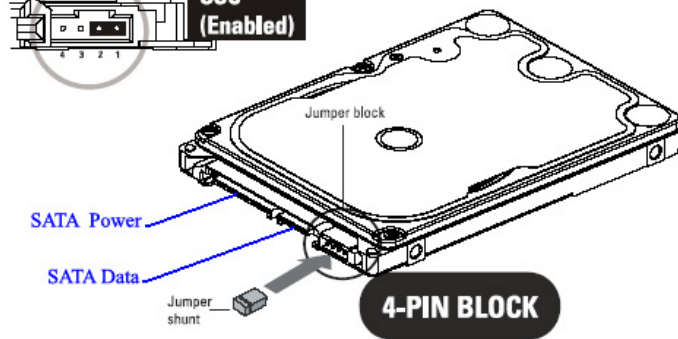
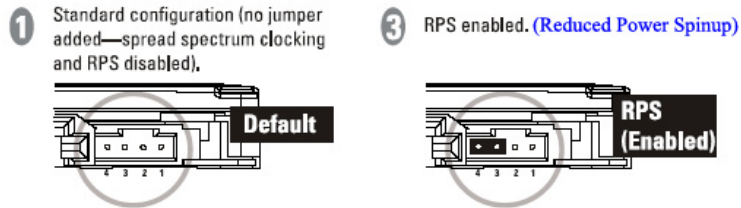
With Free Fall Sensor: WD800BJKT, WD1200BJKT, WD1600BJKT, WD2500BJKT, WD3200BJKT

Without Free Fall Sensor: WD800BEKT, WD1200BEKT, WD1600BEKT, WD2500BEKT, WD3200BEKT

Free-fall sensor - As an added layer of protection, if the drive (or the system it's in) is dropped while in use, WD's free-fall sensor detects that the drive is falling and, in less than 200 milliseconds, parks the head to help prevent damage and data loss.

Answer

KEY: ◻ Jumper pins ◼ Jumper added



Drive Specifications

Capacity	80 GB	120 GB	160 GB	250 GB	320 GB
Formatted capacity	80,026 MB	120,034 MB	160,041 MB	250,059 MB	320,072 MB
User sectors per drive	156,301,488	234,441,648	312,581,808	488,397,168	625,142,448
Interface	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch

Performance Specifications

Data transfer rate - buffer to host (maximum burst rate)	3 Gb/s
Average read seek	12.0 ms (average)
Track-to-track seek	2.0 ms (average)
Average latency	5.5 ms
Rotational speed	7200 RPM
Read cache	Adaptive
Write cache	Yes
Buffer	16 MB
Warranty	Warranty Length

Physical Dimensions

Height	0.374 in. (9.5 mm) ± 0.008 in.
Length	3.94 in. (100.2 mm) ± 0.010 in.
Width	2.75 in. (69.85 mm) ± 0.25 in.
Weight	0.22 lb. (99 gg)

Power Requirements

Mode	5V (±5%)	Power
Spinup	1000 mA	5.0 W
Read/Write ³	500 mA	2.5 W
Idle	400 mA	2.0 W
Standby	50 mA	0.25 W
Sleep	30 mA	0.15 W

Environmental Specifications

Operating Temperature & Humidity

Temperature	5° C to 60° C
Humidity	8-90% RH non-condensing
Thermal Gradient	20° C/hour max

Non-Operating Temperature & Humidity

Temperature	-40° C to 65° C
Humidity	5-95% RH non-condensing
Thermal Gradient	30° C/hour

Acoustics (average)

Idle mode ⁵	22 dBA
Seek mode ⁴	25 dBA

CAPACITY

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.

BUFFER/CACHE

As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes.

TRANSFER RATE/INTERFACE

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.

² Maximum burst rate running the specified PIO, DMA, or Ultra ATA transfer mode.

³ 20% duty cycle.

⁴ Sound power level.

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