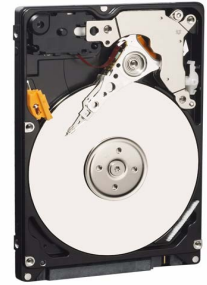


WD Scorpio® Black™

Mobile Hard Drives

Desktop-class performance
for notebook computers



Interface

SATA 3 Gb/s

Width/Height

2.75 in./0.37 in.
69.85 mm/9.5 mm

Rotational Speed

7200 RPM

Capacities

80 to 320 GB

Model Numbers

WD3200BEKT
WD3200BJKT
WD2500BEKT
WD2500BJKT
WD1600BEKT
WD1600BJKT
WD1200BEKT
WD1200BJKT
WD800BEKT
WD800BJKT

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

Designed with top-of-the-line notebook computers in mind, this high performance drive delivers the capacity and speed needed to supercharge a notebook PC without compromising battery life or quiet acoustics. Features like these also make this drive an outstanding option for compact desktops, external hard drives, gaming systems, and blade servers.

Product Features

Desktop-class performance for notebook computers - With 7200 RPM spin speed, 16 MB cache, and capacities up to 320 GB, these drives enable you to have the best of both worlds: the capacity and performance of a desktop PC with the convenience and portability of a notebook.

Massive capacity - WD's 320 GB 2.5-inch drives offer huge capacity for space-hungry operating systems like Windows Vista™, with plenty of room left over for photos, music, and video.

Low power consumption - With technologies like IntelliSeek™, which calculates optimum seek speeds to lower power consumption and SecurePark™, which reduces power by parking the heads during low power idle mode, this drive delivers 5400 RPM-equivalent power consumption in a 7200 RPM drive.

Quiet - In a notebook drive, silence is golden. WD's exclusive WhisperDrive™ combines state-of-the-art seeking algorithms to yield one of the quietest 2.5-inch hard drives on the market.

Reliable and rugged - WD's ShockGuard™ technology protects the drive mechanics and platter surfaces from shocks during shipping and handling and in daily operation. WD's SecurePark parks the recording heads off the disk surface during spin up, spin down, and when the drive is off. This ensures the recording head never touches the disk surface, resulting in improved long-term reliability due to less head wear and improved non-operational shock tolerance.

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.

Available on WDxxxxBJKT models only.

Tested for compatibility - We perform tests on hundreds of systems and a multitude of platforms in our FIT Lab™ and Mobile Compatibility Lab to give WD customers confidence that our drives will work in their systems.

WD Scorpio Black is part of WD's complete lineup of mobile hard drives.



WD Scorpio Black

Mobile Hard Drives

Performance Specifications

Specifications	320 GB	250 GB	160 GB	120 GB	80 GB
Model number	WD3200BEKT WD3200BJKT	WD2500BEKT WD2500BJKT	WD1600BEKT WD1600BJKT	WD1200BEKT WD1200BJKT	WD800BEKT WD800BJKT
Interface	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s
Formatted capacity ¹	320,072 MB	250,059 MB	160,041 MB	120,034 MB	80,026 MB
User sectors per drive	625,142,448	488,397,168	312,581,808	234,441,648	156,301,488
Master/slave support	Yes	Yes	Yes	Yes	Yes
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant ²	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rate (max)					
Buffer to host	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s
Host to/from drive (sustained)	100 Mbytes/s	100 Mbytes/s	100 Mbytes/s	100 Mbytes/s	100 Mbytes/s
Cache (MB)	16	16	16	16	16
Average latency (ms)	4.2	4.2	4.2	4.2	4.2
Rotational speed (RPM)	7200	7200	7200	7200	7200
Average drive ready time (sec)	4	4	4	4	4
Configuration/Organization					
Heads/disks	4/2	4/2	2/1	2/1	1/1
Bytes per sector (STD)	512	512	512	512	512
Reliability/Data Integrity					
Load/unload cycles ³	600,000	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁴	5	5	5	5	5
Power Management					
5VDC ±10% (A, peak)	1.1	1.1	1.1	1.1	1.1
Average power requirements (W)					
Read/Write	2.1	2.1	2.1	2.1	2.1
Idle					
- Performance (mode 1)	2.0	2.0	2.0	2.0	2.0
- Active (mode 2)	1.1	1.1	1.1	1.1	1.1
- Low Power (mode 3)	0.95	0.95	0.95	0.95	0.95
Standby	0.20	0.20	0.20	0.20	0.20
Sleep	0.20	0.20	0.20	0.20	0.20
Environmental Specifications⁵					
Temperature (°C)					
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)					
Operating (2 ms, read)	275	275	275	275	275
Non-operating (1 ms)	900	900	900	900	900
Average acoustics (dBA) ⁶					
Idle mode	25	25	25	25	25
Average seek mode	28	28	28	28	28
Physical Dimensions					
Height (in./mm, max)	0.374/9.50	0.374/9.50	0.374/9.50	0.374/9.50	0.374/9.50
Length (in./mm, max)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm, ± .01 in.)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb./kg, ± 10%)	0.24/0.111	0.24/0.111	0.24/0.111	0.24/0.111	0.24/0.111



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¹One gigabyte (GB) = 1,000,000,000 bytes. Total accessible capacity varies depending on operating environment.

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.

³Controlled unload at ambient condition.

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