

WD Scorpio®

Mobile Hard Drives

High Performance
Low Power Consumption
Ultra Cool and Quiet



Interface

SATA or EIDE

Width/Height

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

Rotational Speed

5400 RPM

Capacities

40 to 320 GB

Model Numbers

SATA Drives 8 MB Buffer	EIDE Drives 8 MB Buffer
WD3200BEVT	WD2500BEVE
WD2500BEVS	WD1600BEVE
WD1600BEVS	WD1200BEVE
WD1200BEVS	WD800BEVE
WD800BEVS	WD600BEVE
WD600BEVS	WD400BEVE*
WD400BEVS	WD1200VE**
	WD400VE**

2 MB Buffer	2 MB Buffer
WD800BEAS*	WD1200BEAE*
WD600BEAS*	WD800BEAE*
WD400BEAS*	WD400BEAE*
	WD1200UE**
	WD800UE**
	WD600UE**
	WD400UE**

* Built to order only. Contact your WD Sales Manager for details.

**Product is end-of-life but may be available from selected distributors.

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

WD Scorpio mobile hard drives deliver best-in-class performance with low power consumption and cool operation. In addition, you'll get one of the quietest 2.5-inch drives on the market with real-time data protection technology to help keep your data safe.

Product Features

Fast and efficient - With 5400 RPM spin speed, 12 ms access time, and up to 3 Gb/s SATA transfer rate, even the most demanding customer will appreciate the performance achieved by WD Scorpio drives.

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. Optimizing the way a drive seeks for data also aids significantly in saving power. So now silence (and longer battery life) is golden.

Reliable and Rugged - WD's ShockGuard™ technology protects the drive mechanics and platter surfaces from shocks. 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.

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 our customers confidence that our drives will work in their systems.

The WD Promise



WD understands the importance of the information you save to your hard drive and we are committed to protecting that data with exceptionally reliable products, advanced data protection technology, and superior customer support. No one does more to safeguard your data than WD.

WD Scorpio

Mobile Hard Drives



Drive Specifications

	40 GB	60 GB	80 GB	120 GB	160 GB	250 GB	320 GB
Formatted capacity ¹	40,020 MB	60,022 MB	80,026 MB	120,034 MB	160,041 MB	250,059 MB	320,072 MB
User sectors per drive	78,140,160	117,210,240	156,301,488	234,441,648	312,581,808	488,397,168	625,142,448
WD model number							
SATA							
8 MB cache buffer	WD400BEVS	WD600BEVS	WD800BEVS	WD1200BEVS	WD1600BEVS	WD2500BEVS	WD3200BEVT
2 MB cache buffer	WD400BEAS*	WD600BEAS*	WD800BEAS*				
EIDE							
8 MB cache buffer	WD400BEVE	WD600BEVE	WD800BEVE	WD1200BEVE	WD1600BEVE	WD2500BEVE	
	WD400VE**			WD1200VE**			
2 MB cache buffer	WD400BEAE*	WD600UE**	WD800BEAE*	WD1200BEAE*			
	WD400UE**		WD800UE**	WD1200UE**			

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SATA Hard Drives

Bytes per sector (STD)	512
Form factor	2.5-inch
Interface	SATA 1.5 Gb/s
Interface (320 GB only)	SATA 3 Gb/s
RoHS compliant ²	Yes

EIDE Hard Drives

Bytes per sector (STD)	512
Form factor	2.5-inch
Interface	44-pin EIDE
RoHS compliant ²	Yes

Performance Specifications

SATA Hard Drives

Average latency	5.5 ms
Cache	
Read	Adaptive
Write	Yes
Data transfer rate	
Buffer to disk	850 Mbits/s (maximum) ³
Buffer to host	1.5 Gb/s (maximum)
Buffer to host (320 GB only)	3 Gb/s (maximum)
Drive ready time	4.0 sec (average)
Error rate (non-recoverable)	< 1 in 10 ¹⁴ bits read
Rotational speed	5400 RPM
Seek time	
Full stroke read	21.0 ms (average)
Read	12.0 ms (average)
Track-to-track	2.0 ms (average)
Load/unload cycles ⁵	600,000

EIDE Hard Drives

Average latency	5.5 ms
Cache	
Read	Adaptive
Write	Yes
Data transfer rate (buffer to host)	
Mode 5 Ultra ATA ⁴	100 MB/s
Mode 4 Ultra ATA ⁴	66.6 MB/s
Mode 2 Ultra ATA ⁴	33.3 MB/s
Mode 2 Ultra DMA ⁴	16.6 MB/s
Mode 4 Ultra PIO ⁴	16.6 MB/s
Buffer to disk	500 Mbits/s (maximum) ³
Drive ready time	4.0 sec (average)
Error rate (non-recoverable)	< 1 in 10 ¹⁴ bits read
Rotational speed	5400 RPM
Seek time	
Full stroke read	21.0 ms (average)
Read	12.0 ms (average)
Track-to-track	2.0 ms (average)
Load/unload cycles ⁵	600,000

Limited Warranty⁶

Limited warranty	3 years
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For service and literature:

support.wdc.com
www.westerndigital.com
 800.ASK.4WDC North America
 949.672.7199 Spanish
 +800.6008.6008 Asia Pacific
 +31.20.4467651 EMEA

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Western Digital
 20511 Lake Forest Drive
 Lake Forest, California 92630
 U.S.A.

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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.

³Buffer to disk transfer rate for WDxxxBEAS/BEVS ML125 drives. ML160 WDxxxBEAS/BEVS drives have a buffer to disk transfer rate of 925 Mbits/s max. ML80 WDxxxBEAS/BEVS drives have a buffer to disk transfer rate of 600 Mbits/s max. ML60 WDxxxBEAS/BEVS and WDxxxUE/VE drives have a buffer to disk transfer rate of 500 Mbits/s max. ML40 WDxxxUE/VE drives have a buffer to disk transfer rate of 421 Mbits/s max.

⁴Maximum burst rate running the specified PIO, DMA, or Ultra ATA transfer mode.

⁵Controlled unload at ambient condition.

⁶The term of the limited warranty may vary by region. Visit support.wdc.com/warranty for details.