

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 250 GB

Model Numbers

SATA Drives 2 MB Buffer EIDE Drives 2 MB Buffer

WD400BEAS	WD400BEAE*
WD600BEAS	WD800BEAE
WD800BEAS	WD1200BEAE
WD1000BEAS	WE1600BEAE
WD1200BEAS	WD400UE
WD1600BEAS	WD600UE
	WD800UE
	WD1000UE
	WD1200UE

8 MB Buffer 8 MB Buffer

WD400BEVS	WD400BEVE*
WD600BEVS	WD800BEVE
WD800BEVS	WD1200BEVE
WD1000BEVS	WD1600BEVE
WD1200BEVS	WD400VE
WD1600BEVS	WD600VE
WD2500BEVS	WD800VE
	WD1000VE
	WD1200VE

WD Scorpio delivers 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 and 12 ms access time, 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 with 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.

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

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



WD Scorpio

Mobile Hard Drives



Drive Specifications

	40 GB	60 GB	80 GB	100 GB	120 GB	160 GB	250 GB
Formatted capacity ¹	40,020 MB	60,022 MB	80,026 MB	100,030 MB	120,034 MB	160,041 MB	250,059 MB
User sectors per drive	78,140,160	117,210,240	156,301,488	195,371,568	234,441,648	312,581,808	488,397,168
WD model number							
SATA							
2 MB cache buffer	WD400BEAS	WD600BEAS	WD800BEAS	WD1000BEAS	WD1200BEAS	WD1600BEAS	
8 MB cache buffer	WD400BEVS	WD600BEVS	WD800BEVS	WD1000BEVS	WD1200BEVS	WD1600BEVS	WD2500BEVS
EIDE							
2 MB cache buffer	WD400BEAE*	WD600UE	WD800BEAE	WD1000UE	WD1200BEAE	WD1600BEAE	
	WD400UE		WD800UE		WD1200UE		
8 MB cache buffer	WD400BEVE*	WD600VE	WD800BEVE	WD1000VE	WD1200BEVE	WD1600BEVE	
	WD400VE		WD800VE		WD1200VE		

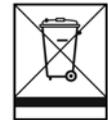
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SATA Hard Drives

Bytes per sector (STD)	512
Form factor	2.5-inch
Interface	SATA 1.5 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	4.2 ms
Cache	
Read	Adaptive
Write	Yes
Data transfer rate	
Buffer to disk	850 Mb/s (maximum) ³
Buffer to host	150 MB/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 Mb/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



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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 WDxxxxBEAS/BEVS ML125 drives. ML80 WDxxxxBEAS/BEVS drive have a buffer to disk transfer rate of 600 Mb/s max. ML60 WDxxxxBEAS/BEVS and WDxxxUE/VE drives have a buffer to disk transfer rate of 500 MB/s max. ML40 WDxxxUE/VE drives have a buffer to disk transfer rate of 421 MB/s max.

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

⁵Controlled unload at ambient condition.