WD®

absolutely™

WD Blue™
Desktop Hard Drives

WD Blue storage is designed and manufactured with technology found in WD's original award-winning desktop and mobile storage. This allows you to use our drive with confidence, knowing that our storage technologies are proven and are reliable everyday solutions. The difference with WD is that our colors never fade.

WD Blue™

INTERFACE	FORM FACTOR	ROTATIONAL SPEED	CAPACITIES
SATA 6 Gb/s PATA 100 MB/s	3.5-inch	7200 RPM	80 GB to 1 TB

MODEL NUMBERS

SATA 6 Gb/s		*PATA 100 MB/s*
WD10EZEX	WD3200AAKX	WD3200AAJB
WD7500AZEX	WD2500AAKX	WD1600AAJB
WD5000AAKX		WD800AAJB

Product Features

Trusted engineering
Built to WD's highest standards of quality and reliability, WD Blue offers the features and entry-level capacities that are ideal for your computing needs. WD Blue is designed by the brand that you trust with the quality you would expect for a tested, proven, everyday storage solution.

Your power of choice
WD Blue is available in a broad range of entry-level capacities, cache sizes, form factors and interfaces so you can be sure there's a drive that's the perfect fit for your system. However, not all hard drives are created equally and for your applications that demand more, WD gives you the power of choice.

A modern classic
WD Blue storage is designed and manufactured with technology found in WD's original award-winning desktop and mobile hard drives. WD Blue sets the baseline for everyday storage by consistently delivering improved performance over previous generations while successfully maintaining WD's quality and reliability for over six generations. The difference is that our colors never fade, generation over generation.

SATA or PATA, the choice is yours
While SATA has become the industry standard interface, WD continues to manufacture desktop drives with a PATA interface for unique or legacy systems.

Drive with confidence
We perform tests on hundreds of systems, configurations, and a multitude of platforms in our FIT Lab™ to give our customers the confidence that our drives will work in their systems for the ultimate compatibility. WD Blue allows you to use our drive with confidence, knowing that our storage advancements such as NoTouch™ Ramp Load technology are proven and reliable everyday solutions.

Easy upgrade
Acronis® True Image™ , available as a download on the WD Support website, enables you to copy all your data to a new drive so you don't have to reinstall your operating system to get all the benefits of a new drive.

Applications

WD Blue storage is tested and recommended for use in desktop and All-in-One PCs, industrial applications, notebooks, and external enclosures where capacity is not needed. For additional capacity, look at WD Green™ capacity storage drives. Desktop drives are not recommended for use in RAID environments. Please consider using WD Red™ hard drives for home and small office 1-5 bay NAS systems and WD enterprise hard drives for rackmount and NAS systems with more than 5 bays.*

* WD hard drives are designed and tested for use in specific applications and environments. This ensures that your hard drive is compatible with and functions properly in your application. Our hard drives are warranted against defects in materials and workmanship in the system for which they were designed. Use in systems other than for what the hard drive was designed could result in compatibility problems that affect proper function, unrelated to material and/or workmanship defects. For best results, be sure to select the appropriate product for your application by consulting our product spec sheets on our website at www.wd.com or by calling our customer support line where we would be happy to help you through the selection process.

The WD Advantage

WD puts our products through extensive Functional Integrity Testing (F.I.T.) prior to any product launch. This testing ensures our products consistently meet the highest quality and reliability standards of the WD brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our customer support lines have longer operational hours to ensure you get the help you need when you need it. Our toll-free customer support lines are here to help or you can access our WD Support site for additional details.

Specifications	1 TB	750 GB	500 GB	320 GB
Model number[1]	WD10EZEX	WD7500AZEX	WD5000AAKX	WD3200AAKX
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[2]	1,000,204 MB	750,156 MB	500,107 MB	320,072 MB
User sectors per drive	1,953,525,169	1,465,149,168	976,773,168	625,142,448
Advanced Format (AF)	Yes	Yes	No	No
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant[3]	Yes	Yes	Yes	Yes
Performance				

Data transfer rate (max)
   Buffer to host
   Host to/from drive (sustained)
	
	6 Gb/s
	150 MB/s
		
		6 Gb/s
		150 MB/s
			
			6 Gb/s
			126 MB/s
				
				3 Gb/s
				126 MB/s

Cache (MB)	64	64	16	16
Rotational speed (RPM)	7200	7200	7200	7200
Reliability/Data Integrity				
Load/unload cycles[4]	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}
Limited warranty (years)[5]	2	2	2	2
Power Management				
12VDC ±10% (A, peak)	2.5	2.5	1.77	1.77

Average power requirements (W)
   Read/Write
   Idle
   Standby/Sleep
	
	6.8
	6.1
	1.2
		
		6.8
		6.1
		1.2
			
			6.0
			5.6
			0.9
				
				6.0
				5.6
				0.9

Environmental Specifications[6]				

Temperature (°C)
   Operating
   Non-operating
	
	0 to 60
	-40 to 70
		
		0 to 60
		-40 to 70
			
			0 to 60
			-40 to 70
				
				0 to 60
				-40 to 70

Shock (Gs)
   Operating (2 ms, write)
   Operating (2 ms, read)
   Non-operating (2 ms)
	
	30
	65
	350
		
		30
		65
		350
			
			30
			65
			350
				
				30
				65
				350

Acoustics (dBA)[7]
   Idle
   Seek (average)
	
	29
	30
		
		29
		30
			
			29
			30
				
				29
				30

Physical Dimensions				
Height (in./mm, max)	1.028/25.4	1.028/25.4	1.028/25.4	1.028/25.4
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	0.99/0.45	0.99/0.45	0.95/0.43	0.95/0.43

[1] Not all products may be available in all regions of the world.

[2] 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. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. 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. Effective maximum SATA 3 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

[3] WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

[4] Controlled unload at ambient condition.

[5] The term of the limited warranty may vary by region. Visit support.wd.com/warranty for details.

[6] No non-recoverable errors during operating tests or after non-operating tests.

[7] Sound power level.

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Specifications	320 GB	250 GB	160 GB	80 GB
Model number[1]	WD3200AAJB	WD2500AAKX	WD1600AAJB	WD800AAJB
Interface	PATA 100 MB/s	SATA 6 Gb/s	PATA 100 MB/s	PATA 100 MB/s
Formatted capacity[2]	320,072 MB	250,059 MB	160,041 MB	80,026 MB
User sectors per drive	625,142,448	488,397,168	312,581,808	156,301,488
Advanced Format (AF)	No	No	No	No
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant[3]	Yes	Yes	Yes	Yes
Performance				
Data transfer rate (max)				
Buffer to host	100 MB/s[4]	6 Gb/s	100 MB/s[4]	100 MB/s[4]
Host to/from drive (sustained)	126 MB/s	126 MB/s	126 MB/s	126 MB/s
Cache (MB)	8	16	8	8
Rotational speed (RPM)	7200	7200	7200	7200
Reliability/Data Integrity				
Load/unload cycles[5]	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}
Limited warranty (years)[6]	2	2	2	2
Power Management				
12VDC ±10% (A, peak)	1.77	1.77	1.77	1.77
Average power requirements (W)				
Read/Write	5.4	5.3	5.4	5.4
Idle	4.9	4.9	4.9	4.9
Standby/Sleep	0.7	0.7	0.7	0.7
Environmental Specifications[7]				
Temperature (°C)				
Operating	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 65	-40 to 70	-40 to 65	-40 to 65
Shock (Gs)				
Operating (2 ms, write)	30	30	30	30
Operating (2 ms, read)	65	65	65	65
Non-operating (2 ms)	350	350	350	350
Acoustics (dBA)[8]				
Idle	29	29	29	29
Seek (average)	30	30	30	30
Physical Dimensions				
Height (in./mm, max)	1.028/25.4	1.028/25.4	1.028/25.4	1.028/25.4
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	0.95/0.43	0.99/0.45	0.95/0.43	0.95/0.43

[1] Not all products may be available in all regions of the world.

[2] 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. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. 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. Effective maximum SATA 3 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

[3] WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

[4] Maximum burst rate running the Mode 5 Ultra ATA transfer mode.

[5] Controlled unload at ambient condition.

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

[7] No non-recoverable errors during operating tests or after non-operating tests.
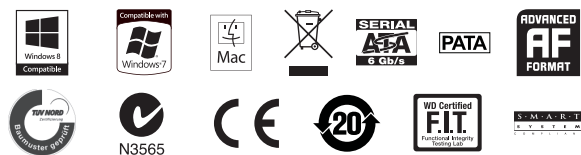
[8] Sound power level.

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Learn more about WD Blue Desktop hard drives

For service and literature:
http://support.wd.com
www.wd.com

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