Western Digital.

PRODUCT BRIEF

3.5-INCH PC HARD DRIVE

Product Highlights

- Reliable, everyday computing
- Western Digital quality and reliability
- Free Acronis® True Image™ WD Edition software
- Massive capacity up to 8TB[1]
- Two-year limited warranty[2]

WD Blue™ 3.5-inch PC HDD

WD Blue internal hard drives deliver solid reliability for office and web applications, and they are perfect for extra storage for desktop PCs and in-office applications.

Tested For Compatibility

We perform tests on hundreds of systems and a multitude of platforms in our F.I.T. Lab™ to give our customers confidence that our drives will work in their systems.

Low Power Consumption

State-of-the-art seeking algorithms and advanced power management features help ensure low power consumption.

NoTouch™ Ramp Load Technology

The recording head never touches the disk media, ensuring significantly less wear to the recording head and media as well as better drive protection in transit.

Upgrading Your Drive Is Easy

Seamlessly migrate your current system to your new Western Digital drive using Acronis® True Image™ WD Edition software, available as a free download on the Western Digital Support site. This software 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.

Two-Year Limited Warranty

As an industry-leading hard drive manufacturer, Western Digital stands behind their PC storage solutions with a 2-year limited warranty[2] included with every WD Blue hard drive.

WD Blue™ 3.5-inch PC HDD

Specifications

	8TB	6TB	4TB	3TB	2TB
Model Number[3]	WD80EAZZ	WD60EZAZ	WD40EZAZ	WD30EZAZ	WD20EZBX
Recording Technology[4]	CMR	SMR	SMR	SMR	SMR
Formatted capacity[1]	8TB	6TB	4TB	3TB	2TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
RoHS compliant[5]	Yes	Yes	Yes	Yes	Yes
Performance					
Interface speed Internal transfer rate[6] (max)	6 Gb/s 185 MB/s	6 Gb/s 180 MB/s	6 Gb/s 180 MB/s	6 Gb/s 180 MB/s	6 Gb/s 215 MB/s
Cache (MiB)[7]	128	256	256	256	256
RPM	5640	5400	5400	5400	7200
Reliability/Data Integrity					
Load/unload cycles[8]	300,000	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}	<1 in 10^{14}
Limited warranty (years)[2]	2	2	2	2	2
Power Management[9]					
Average power requirements (W)					
12VDC ±10% (A, peak)	1.75	1.75	1.75	1.75	1.75
Read/Write	6.2	4.8	4.8	4.8	5.6
Idle	4.1	3.1	3.1	3.1	3.7
Standby and Sleep	0.4	0.6	0.6	0.6	0.4
Environmental Specifications[10]					
Temperature (°C, on the base casting)					
Operating	0 to 65	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, write)	70	30	30	30	30
Operating (2 ms, read)	70	65	65	65	65
Non-operating (2 ms)	250	250	250	250	350
Acoustics (dBA)[11]					
Idle	25	23	23	23	25
Seek (average)	30	27	27	27	27
Physical Dimensions					
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	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	4/101.6
Weight (lb/kg, ± 3%)	1.65/0.75	1.40/0.64	1.26/0.57	1.26/0.57	0.99/0.45

Specifications subject to change without notice.

[1] As used for storage capacity, 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

[2] See http://support.wd.com/warranty for regional specific warranty details.

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

[4] Implementation of SMR for the following products using SMR recording technology is device-managed SMR.

[5] This hard drive product meets or exceeds Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU and Directive (EU) 2015/863.

[6] 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

[7] Memory capacity for cache is indicated in mebibytes (MiB) and one MiB is equal to 1,048,576 bytes.

[8] Controlled unload at ambient condition.

[9] Power measurements at room-ambient temperature.

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

[11] Sound power level.

WD Blue™ 3.5-inch PC HDD

PRODUCT BRIEF **3.5-INCH PC HARD DRIVE**

Specifications

	2TB	1TB	1TB	500GB	500GB
Model Number[3]	WD20EZAZ	WD10EZRZ	WD10EZEX	WD5000AZRZ	WD5000AZLX
Recording Technology[4]	SMR	CMR	CMR	CMR	CMR
Formatted capacity[1]	2TB	1TB	1TB	500GB	500GB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
RoHS compliant[5]	Yes	Yes	Yes	Yes	Yes
Performance					
Interface speed Internal transfer rate[6] (max)	6 Gb/s 180 MB/s	6 Gb/s 150 MB/s	6 Gb/s 150 MB/s	6 Gb/s 150 MB/s	6 Gb/s 150 MB/s
Cache (MiB)[7]	256	64	64	64	32
RPM	5400	5400	7200	5400	7200
Reliability/Data Integrity					
Load/unload cycles[8]	300,000	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}	<1 in 10^{14}
Limited warranty (years)[2]	2	2	2	2	2
Power Management[9]					
Average power requirements (W)					
12VDC ±10% (A, peak)	1.31	1.2	2.5	1.2	1.77
Read/Write	4.1	3.3	6.8	3.3	6.8
Idle	2.3	2.5	6.1	2.5	6.1
Standby and Sleep	0.6	0.4	1.2	0.4	1.2
Environmental Specifications[10]					
Temperature (°C, on the base casting)					
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, write)	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65
Non-operating (2 ms)	350	350	350	350	350
Acoustics (dBA)[11]					
Idle	21	21	29	21	29
Seek (average)	26	24	30	22	30
Physical Dimensions					
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	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	4/101.6
Weight (lb/kg, ± 3%)	0.99/0.45	0.99/0.45	0.99/0.45	0.99/0.45	0.99/0.45

Specifications subject to change without notice.

[1] As used for storage capacity, 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

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