



3.5" SATA PC Hard Drive

Feature bullets

- Reliable everyday computing
- Western Digital quality and reliability
- Free Acronis® True Image™ WD Edition cloning software
- Capacities up to 12TB¹
- 2-year limited warranty⁷

WD Blue® 3.5-inch SATA PC HDD

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.

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.

Low Power Consumption

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

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.

The Western Digital® Advantage

As an industry-leading hard drive manufacturer, Western Digital stands behind their PC storage solutions with a 2-year limited warranty⁷ included with every WD Blue hard drive.

WD Blue® 3.5-inch SATA PC HDD

Specifications

Model Number ²	WD120EAGZ	WD100EAGZ	WD80EAAZ	WD80EAAZ	WD60EZAX	WD60EZAZ	WD40EZAX	WD40EZAZ	WD30EZAX	WD30EZAZ
Formatted capacity ¹	12TB	10TB	8TB	8TB	6TB	6TB	4TB	4TB	3TB	3TB
Recording Technology ³	CMR	CMR	CMR	CMR	CMR	SMR	CMR	SMR	CMR	SMR
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Drive Technology	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant ⁴	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance										
Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal Transfer Rate (max) ⁵	260 MB/s	260 MB/s	185 MB/s	215 MB/s	180 MB/s	180 MB/s	180 MB/s	180 MB/s	180 MB/s	180 MB/s
Cache (MB) ¹	512	512	128	256	256	256	256	256	256	256
RPM	7200	7200	5640	5640	5400	5400	5400	5400	5400	5400
Reliability/Data Integrity										
Load/unload cycles ⁶	300,000	300,000	300,000	300,000	300,000	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	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁷	2	2	2	2	2	2	2	2	2	2
Power Management ⁸										
12VDC ± 10% (A, peak)	1.9	1.9	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Average Power (W)										
Read/Write	8.8	8.8	6.2	5.2	4.7	4.8	4.7	4.8	4.7	4.8
Idle	6.1	6.1	4.1	3.4	3.1	3.1	3.1	3.1	3.1	3.1
Standby/Sleep	0.3	0.3	0.4	0.4	0.3	0.6	0.3	0.6	0.3	0.6
Environmental Specifications ⁹										
Temperature (°C)										
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	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	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)										
Operating (2 ms, write)	70	70	70	70	70	30	70	30	70	30
Operating (2 ms, read)	70	70	70	70	70	65	70	65	70	65
Non-operating (2 ms)	250	250	250	250	250	250	250	250	250	250
Acoustics (dBA) ¹⁰										
Idle	34	34	25	24	23	23	23	23	23	23
Seek (average)	39	39	30	28	27	27	25	27	25	27
Physical Dimensions										
Height (max) (in / mm)	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1
Length (max) (in / mm)	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147
Width (± .01 in.) (in / mm)	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6
Weight (± 3%) (lb / kg)	1.65 / 0.75	1.65 / 0.75	1.65 / 0.75	1.58/0.715	1.26 / 0.57	1.26 / 0.57	1.26 / 0.57	1.26 / 0.57	1.26 / 0.57	1.26 / 0.57

WD Blue® 3.5-inch SATA PC HDD

Specifications

Model Number ²	WD20EARZ	WD20EZBX	WD20EZAZ	WD10EARZ	WD10EZRZ	WD10EZEX	WD5000AZRZ	WD5000AZLX
Formatted capacity ¹	2TB	2TB	2TB	1TB	1TB	1TB	500GB	500GB
Recording Technology ³	CMR	SMR	SMR	CMR	CMR	CMR	CMR	CMR
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Drive Technology	Air	Air	Air	Air	Air	Air	Air	Air
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant ⁴	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance								
Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal Transfer Rate (max) ⁵	180 MB/s	215 MB/s	180 MB/s	180 MB/s	150 MB/s	150 MB/s	150 MB/s	150 MB/s
Cache (MB) ¹	64	256	256	64	64	64	64	32
RPM	5400	7200	5400	5400	5400	7200	5400	7200
Reliability/Data Integrity								
Load/unload cycles ⁶	300,000	300,000	300,000	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	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁷	2	2	2	2	2	2	2	2
Power Management ⁸								
12VDC ± 10% (A, peak)	1.2	1.75	1.31	1.2	1.2	2.5	1.2	1.77
Average Power (W)								
Read/Write	4.0	5.6	4.1	4.0	3.3	6.8	3.3	6.8
Idle	2.4	3.7	2.3	2.4	2.5	6.1	2.5	6.1
Standby/Sleep	0.3	0.4	0.6	0.3	0.4	1.2	0.4	1.2
Environmental Specifications ⁹								
Temperature (°C)								
Operating	0 to 60	0 to 60	0 to 60	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	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)								
Operating (2 ms, write)	70	30	30	70	30	30	30	30
Operating (2 ms, read)	70	65	65	70	65	65	65	65
Non-operating (2 ms)	300	350	350	300	350	350	350	350
Acoustics (dBA) ¹⁰								
Idle	21	25	21	21	21	29	21	29
Seek (average)	26	27	26	26	24	30	22	30
Physical Dimensions								
Height (max) (in / mm)	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1
Length (max) (in / mm)	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147
Width (± .01 in.) (in / mm)	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6
Weight (± 3%) (lb / kg)	0.99 / 0.45	0.99 / 0.45	0.99 / 0.45	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 1MB = 1 million bytes, 1GB = 1 billion bytes, and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

² Not all products may be available in all regions of the world.

³ Implementation of SMR for the following products using SMR recording technology is device-managed SMR.

⁴ 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.

⁵ 1MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

⁶ Controlled unload at ambient condition.

⁷ See support.wdc.com/warranty for regional specific warranty details.

⁸ Power measurements at room-ambient temperature.

⁹ No non-recoverable errors during operating tests or after non-operating tests.

¹⁰ Sound power level.



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