Western Digital.

WD™ Blue 2.5-inch PC HDD

Western Digital Quality

Built to the high standards of qaulity and reliability of the WD brand, these drives offer the features and capacity ideal for everyday computing needs.

The Original

WD Blue 2.5-inch PC Hard Drives are designed and manufactured with the proven technology found in WD's original award-winning hard drives.

Compatible

Our latest generation of 7 mm 2.5-inch mobile drives is designed for thin and light mobile applications, and is also compatible with most standard 9.5 mm bays.

SATA 6 Gb/s Interface

Safely positions the recording head off the disk surface to protect your data.

Low Power Consumption

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

Quiet

In a notebook drive, silence is golden. Western Digital's exclusive noise reducing technologies yield some of the quietest 2.5-inch hard drives on the market.

Upgrading Your Drive is Easy

Acronis™ True Image™ Western Digital Edition software is available as a free download on the Western Digital Support site enabling you to copy all your data to a new drive. You don't have to reinstall your operating system to get all the benefits of a new drive.

Highlights

- Storage built to Western Digital's high standards of quality and reliability
- Manufactured with Western Digital's award-winning desktop and mobile hard drive technology
- Available in a broad range of capacities[1]
- Tested in our F.I.T. Lab™ for ultimate compatibility
- Free Acronis™ True Image™ WD Edition software available for download

Specifications

	2TB	1TB	500GB
Model Number[2]	WD20SPZX	WD10SPZX	WD5000LPZX
Recording Technology[3]	SMR	SMR	SMR
Formatted capacity[1]	2TB	1TB	500GB
Form factor	2.5-inch	2.5-inch	2.5-inch
Advanced Format (AF)	Yes	Yes	Yes
RoHS compliant[4]	Yes	Yes	Yes
Performance			
Interface transfer rate (max)[5] Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s
Host to/from drive (sustained)	149 MB/s (max.)	150 MB/s (max.)	150 MB/s (max.)
Cache (MB)	128	128	128
Performance Class	5400 RPM	5400 RPM	5400 RPM
Reliability/Data Integrity			
Load/unload cycles[6]	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}
Limited warranty (years)[7]	2	2	2
Power Management[8]			
Average power requirements (W)			
Read/Write	1.7	1.5	1.5
Idle	0.5	0.5	0.5
Standby and Sleep	0.1	0.1	0.1
Environmental Specifications[9]			
Temperature (ºC)			
Operating	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 65	-40 to 65	-40 to 65
Acoustics (dBA)[10]			
Idle	23	19	19
Seek (average)	24	21	21
Physical Dimensions			
Height (in./mm, max)	0.28/7.0	0.28/7.0	0.28/7.0
Length (in./mm, max)	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm, ± .01 in.)	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb/kg, ± 10%)	0.20/0.09	0.20/0.09	0.20/0.09

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] 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.

[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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