Western Digital

WD Blue™

WD Blue 2.5-inch PC Hard Drives deliver solid performance and reliability while providing you with all of the space you need to hold enormous amounts of photos, videos, files, and games. WD Blue 2.5-inch Hard Drives are designed for use as primary drives in notebooks, desktops, All-in-One PCs, external enclosures, and game consoles.

WD Quality

Built to the high standards of quality and reliability of the WD brand, these drives offer the features and capacity ideal for your 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. WD'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™ WD Edition cloning software, available as a free download on the WD Support site, 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.

Enhanced Availability (EA)—for 24×7 Access to Data

Western Digital provides enhanced availability models of WD Blue 2.5-inch PC Hard Drives (WD5000LQVX) that deliver 24×7 access to information for data-intensive applications requiring round-the-clock operation. The new thinner profile allows for additional cooling, especially important in dense blade server designs. The WD Blue 2.5-inch PC Hard Drives provide high capacity, durability, and quiet acoustics on a proven platform for quality and reliability. EA models support the stringent demands of "always-on" applications in lower-transaction environments.

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.
- Tested in our F.I.T. Lab™ for ultimate compatibility.
- Free Acronis™ True Image™ WD Edition software available for download.

INTERFACE
SATA 6 Gb/s

FORM FACTOR
2.5-inch

PERFORMANCE CLASS
5400 RPM Class

CAPACITIES
320GB to 2TB

MODEL NUMBERS
WD20SPZX
WD10SPZX
WD5000LPVX
WD5000LQVX (EA)
WD5000LPCX
WD3200LPCX

THE WESTERN DIGITAL ADVANTAGE

Western Digital 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 Western Digital brand.

Western Digital 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 Western Digital Support site for additional details.

Specifications

	2TB	1TB	500GB	500GB	320GB	320GB
Model Number[2]	WD20SPZX	WD10SPZX	WD5000LPCX	WD5000LPVX WD5000LQVX (EA)[9]	WD3200LPCX	WD3200LPVX
Formatted capacity[1]	2TB	1TB	500 GB	500 GB	320 GB	320 GB
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes	Yes
Performance						
Data transfer rate (max)[1] Interface speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Cache (MB)[1]	128	128	16	8	16	8
Performance Class	5400 RPM	5400 RPM	5400 RPM	5400 RPM	5400 RPM	5400 RPM
Average drive ready time (sec)	3.5	2.8	2.8	2.8	2.8	2.8
Reliability/Data Integrity						
Load/unload cycles[4]	600,000	600,000	600,000	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}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}
Limited warranty (years)[5]	2	2	2	2	2	2
Power Management[6]						
Average power requirements (W) Read/Write Idle Standby and Sleep	1.7 0.5 0.1	1.5 0.5 0.1	1.4 0.55 0.16	1.4 0.5 0.20	1.4 0.55 0.16	1.4 0.55 0.13
Environmental Specifications[7]						
Temperature (°C, on the base casting) Operating Non-operating	0 to 60 -40 to 65	0 to 60 -40 to 65	0 to 60 -40 to 65	0 to 60 -40 to 65	0 to 60 -40 to 65	0 to 60 -40 to 65
Acoustics (dBA)[8] Idle Seek (average)	23 24	19 21	17 22	19 21	17 22	17 22
Physical Dimensions						
Height (in./mm, max)	0.28/7.0	0.28/7.0	0.27/6.8	0.27/6.8	0.27/6.8	0.27/6.8
Length (in./mm, max)	3.94/100.20	3.94/100.20	3.94/100.20	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	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	0.21/0.095	0.20/0.09	0.20/0.09

[1] As used for storage capacity, 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 6 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.

[2] Not all products may be available in all regions of the world.
[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] See http://support.wdc.com/warranty for regional specific warranty details.
[6] Power measurements at room-ambient temperature.
[7] No non-recoverable errors during operating tests or after

non-operating tests.
[8] Sound power level.
[9] Designed for low duty cycle, non mission-critical applications in PC, nearline and consumer electronics environments, which vary application to application