WD Blue™

PC Hard Drives

WD Blue hard drives deliver solid performance and reliability while providing you with all of the space you need to hold enormous amounts of photos, videos, and files. WD Blue hard drives are designed for use as primary drives in notebooks and external enclosures.

INTERFACE	FORM FACTOR	HEIGHT	INTERFACE CONNECTOR	ROTATIONAL SPEED	CAPACITIES
SATA 6 Gb/s SATA 3 Gb/s	2.5-inch	7 mm to 15 mm	SATA Connector	5400 RPM Class	250 GB to 3 TB

MODEL NUMBERS

WD30NPRZ	WD7500LPCX	WD3200LPVX
WD20NPVZ	WD7500BPVX	WD3200LPCX
WD15NPVZ	WD5000LPVX	WD2500LPVX
WD10SPCX	WD5000LPCX	WD2500LPCX
WD10JPVX	WD5000BPVX	

Product Features

StableTrac™
Motor shaft affixed to the baseplate and top cover stabilizes platters for accurate tracking during read and write operations, yielding higher drive data throughput in harsh shock and vibration environments. Supporting the top cover with the shaft also increases robustness to pinch forces. (WD5000MPCK model only).

Available SATA 6 Gb/s interface
The SATA 6 Gb/s interface provides greater flexibility for use with the latest chipsets as well as backwards compatibility to legacy systems with SATA 3 Gb/s requirements. (xPVX, and xPCX models only).

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.

The Original
WD Blue drives are designed and manufactured with the proven technology found in WD's original award-winning hard drives.

WD Quality
Built to the highest standards of quality and reliability, these drives offer the features and capacity ideal for your everyday computing needs.

Low Power Consumption
State-of-the-art seeking algorithms and advanced power management features ensure low power consumption and long battery life.

Upgrading Your Drive is Easy
Acronis® True Image™ WD Edition 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.

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 (xPCX, LPVT, and LPVX models only).

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

Applications

WD Blue hard drives are tested and recommended for use in notebooks and external enclosures.*

* 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 that our products consistently meet the highest quality and reliability standards of the WD brand. WD also provides a detailed Knowledge Base with more than 1,000 helpful articles, helpful software, and utilities. Our customer support lines are open for more 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	3 TB	2 TB	1.5 TB	1 TB	1 TB	750 GB
Model number[1]	WD30NPRZ	WD20NPVZ	WD15NPVZ	WD10SPCX	WD10JPVX	WD7500LPCX
Interface	6 Gb/s	6 Gb/s	6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[2]	3,000,592 MB	2,000,802 MB	1,500,301 MB	1,000,204 MB	1,000,204 MB	750,156 MB
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes	Yes
Performance						
Data transfer rates Interface speed	 6 Gb/s	 6 Gb/s	 6 Gb/s	 6 Gb/s	 6 Gb/s	 6 Gb/s
Cache (MB)	64	8	8	16	8	16
Rotational speed (RPM)	5400	5200	5200	5400	5400	5400
Average drive ready time (sec)	8.0	6.5	6.5	2.8	3.0	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						
5VDC ±10% (A, peak)	1.00	1.00	1.00	1.00	1.00	1.00
Average power requirements (W) Read/Write Idle Standby/Sleep	 2.0 0.7 0.1	 1.7 0.8 0.2	 1.7 0.8 0.2	 1.7 0.57 0.18	 1.4 0.59 0.18	 1.7 0.57 0.18
Environmental Specifications[6]						
Temperature (°C) 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)[7] Idle Seek (average)	 25.5 26.5	 24 25	 24 25	 20 21	 24 25	 20 21
Physical Dimensions						
Height (in./mm)	0.59/15	0.59/15	0.59/15	0.28/7.0	0.374/9.50	0.28/7.0
Length (in./mm)	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)	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%)	0.40/0.182	0.40/0.18	0.40/0.18	0.21/0.09	0.27/0.12	0.21/0.09

[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	750 GB	500 GB	500 GB	320 GB	250 GB
Model number[1]	WD7500BPVX	WD5000BPVX	WD5000LPVX WD5000LPCX	WD3200LPVX WD3200LPCX	WD2500LPVX WD2500LPCX
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s (LPVX, LPCX)	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[2]	750,156 MB	500,107 MB	500,107 MB	320,072 MB	250,059 MB
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rates Interface speed	 6 Gb/s	 6 Gb/s	 6 Gb/s (LPVX, LPCX)	 6 Gb/s	 6 Gb/s
Cache (MB)	8	8	8 (LPVX) 16 (LPCX)	8 (LPVX) 16 (LPCX)	8 (LPVX) 16 (LPCX)
Average latency (ms)	5.5	5.5	5.5	5.5	5.5
Rotational speed (RPM)	5400	5400	5400	5400	5400
Average drive ready time (sec)	3.0	3.0	2.8 (LPVX, LPCX)	2.8	2.8
Reliability/Data Integrity					
Load/unload cycles[4]	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}
Limited warranty (years)[5]	2	2	2	2	2
Power Management					
5VDC ±10% (A, peak)	1.00	1.00	1.00 (LPVX, LPCX)	1.00	1.00
Average power requirements (W) Read/Write Idle Standby/Sleep	 1.6 0.65 0.20	 1.4 0.59 0.18	 1.4 0.55 0.13 (LPVX) 0.16 (LPCX)	 1.4 0.55 0.13 (LPVX) 0.16 (LPCX)	 1.4 0.55 0.13 (LPVX) 0.16 (LPCX)
Environmental Specifications[6]					
Temperature (°C) 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
Acoustics (dBA)[7] Idle Seek (average)	 24 25	 24 25	 17 22	 17 22	 17 22
Physical Dimensions					
Height (in./mm)	0.374/9.50	0.28/7.0	0.28/7.0	0.28/7.0	0.28/7.0
Length (in./mm)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb/kg, ± 10%)	0.34/0.15	0.25/0.12	0.20/0.09	0.20/0.09	0.20/0.09

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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Learn more about WD Blue Mobile hard drives

For service and literature:

http://support.wd.com
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