

Data Sheet



4 / 6 / 8 TB
7200 RPM | 6 Gb/s SATA | 12 Gb/s SAS

Ultrastar® **DC HC350**

Ultrastar® DC HC350 is a trusted, enterprise-class HDD designed for mainstream data center workloads. Available in 4TB, 6TB, and 8TB capacities with SATA and SAS interfaces, it delivers the reliability, performance, and quality required for 24×7 Data Center storage operations. Built with enterprise-class features, the HC350 provides dependable storage for enterprise applications, cloud infrastructure, data tiering, backup operations, and software-defined storage environments, helping organizations manage data growth with confidence and efficiency.

Highlights

- Available in SATA or SAS interface
- Rated for 550TB/year workloads and annual AFR as low as 0.44%[5]
- Backed by a 5-year limited warranty[8]

Target Audience

- Enterprise IT & Storage Architects
- Cloud & CSP Operators
- System Integrators & OEMs

Ideal For

- Enterprise applications
- Cloud Infrastructure
- Data Tiering
- Backup operations
- SDS environments

Reliability You Can Trust

Our customers choose Ultrastar for peace of mind—because WD delivers resilience engineered for real-world complexity. Trusted to perform at scale. Proven to deliver. Ultrastar is engineered for seamless reliability from qualification to production. Ultrastar delivers reliability you can count on, with annual AFR as low as 0.35%[5] backed by a 5-year limited warranty[8].

Flexible Enterprise Connectivity

Available in SATA 6Gb/s or SAS 12Gb/s configurations, the Ultrastar DC HC350 allows organizations to balance performance, availability, and cost requirements while simplifying integration into existing data center architectures and storage platforms.

Enhanced Data Protection and Reliability

Media Cache Plus helps improve write efficiency and data protection, while Dual Safe Firmware provides an additional layer of firmware resiliency to help safeguard against operational disruptions. Together, they help ensure dependable performance and reliable data storage for business-critical workloads.

Ultrastar Puts Customer Needs First

Customer success drives the Ultrastar roadmap. WD collaborates with customers to solve real-world data storage challenges—ensuring our innovation and long-term roadmap are anchored in their business outcomes, not just technical features. We simplify adoption and reduce risk through early engagement and strategic alignment—becoming a trusted partner in our customers' journey.

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Specifications

	4TB SATA Model	4TB SAS Model	6TB SATA Model	6TB SAS Model	8TB SATA Model	8TB SAS Model
Model Number	WUS721204CLxxyz	WUS721204CLxxyz	WUS721206CLxxyz	WUS721206CLxxyz	WUS721208CLxxyz	WUS721208CLxxyz
Recording Technology	CMR	CMR	CMR	CMR	CMR	CMR
Interface	SATA 6 Gb/s	SAS 12 Gb/s	SATA 6 Gb/s	SAS 12 Gb/s	SATA 6 Gb/s	SAS 12 Gb/s
Formatted capacity[1]	4TB	4TB	6TB	6TB	8TB	8TB
Drive Technology	Air	Air	Air	Air	Air	Air
Format: Sector size (bytes)[2]	4Kn: 4096 512e: 512	4Kn: 4096 512e: 512	4Kn: 4096 512e: 512	4Kn: 4096 512e: 512	4Kn: 4096 512e: 512	4Kn: 4096 512e: 512
Areal density (max) (Gbits/sq. in.)	1028	1028	1028	1028	1028	1028
Performance						
Data buffer[3] (MB)	256	256	256	256	256	256
Rotational speed (RPM)	7200	7200	7200	7200	7200	7200
Latency average (ms)	4.16	4.16	4.16	4.16	4.16	4.16
Interface transfer rate (MB/s, max)	600	1200	600	1200	600	1200
Sustained transfer rate[4] (MB/s, max) / (MiB/s, max)	275 / 263	275 / 263	275 / 263	275 / 263	275 / 263	275 / 263
Reliability/Data Integrity						
Error rate (non-recoverable, bits read)	1 in 10^{15}	1 in 10^{15}	1 in 10^{15}	1 in 10^{15}	1 in 10^{15}	1 in 10^{15}
Load/Unload cycles (at 40°C)	600,000	600,000	600,000	600,000	600,000	600,000
Availability (hrs/day x days/wk)	24x7	24x7	24x7	24x7	24x7	24x7
Annualized Failure Rate[5]	0.44%	0.44%	0.44%	0.44%	0.44%	0.44%
Limited warranty[8]	5 years	5 years	5 years	5 years	5 years	5 years
Power	+5 VDC, +12VDC	+5 VDC, +12VDC	+5 VDC, +12VDC	+5 VDC, +12VDC	+5 VDC, +12VDC	+5 VDC, +12VDC
Random Read 4KB QD=8 @MAX IOPS (W)	8.6	8.9	9.6	9.9	9.6	9.9
Idle[6] (W)	5.4	5.7	6.5	6.8	6.5	6.8
Power efficiency at idle (W/TB)	As low as 1.35	As low as 1.43	As low as 1.08	As low as 1.13	As low as 0.81	As low as 0.85
Physical Dimensions						
z-height (max) in / mm	1.03 / 26.1	1.03 / 26.1	1.03 / 26.1	1.03 / 26.1	1.03 / 26.1	1.03 / 26.1
Length (max) in / mm	5.78 / 146.7	5.78 / 146.7	5.78 / 146.7	5.78 / 146.7	5.78 / 146.7	5.78 / 146.7
Width ± .01 in. / mm	4.0 / 101.6	4.0 / 101.6	4.0 / 101.6	4.0 / 101.6	4.0 / 101.6	4.0 / 101.6
Weight (max) lb / kg	1.58 / .715	1.58 / .715	1.58 / .715	1.58 / .715	1.58 / .715	1.58 / .715
Environmental						
Temperature (°C)[7] Operating / Non-Operating	5° to 60° / -40° to 70°	5° to 60° / -40° to 70°	5° to 60° / -40° to 70°	5° to 60° / -40° to 70°	5° to 60° / -40° to 70°	5° to 60° / -40° to 70°
Shock (half-sine wave 2 ms, G) Operating / Non-Op	40 / 200	40 / 200	40 / 200	40 / 200	40 / 200	40 / 200
Vibration (G RMS 5 to 500 HZ) Operating / (2 to 200 Hz) Non-Op	0.7 / 1.04 (X Y Z)	0.7 / 1.04 (X Y Z)	0.7 / 1.04 (X Y Z)	0.7 / 1.04 (X Y Z)	0.7 / 1.04 (X Y Z)	0.7 / 1.04 (X Y Z)
Acoustics (Bels, Typical) Idle / Operating	2.9 / 3.6	2.9 / 3.6	2.9 / 3.6	2.9 / 3.6	2.9 / 3.6	2.9 / 3.6
Country of Assembly	Thailand	Thailand	Thailand	Thailand	Thailand	Thailand

[1] One MB is equal to one million bytes, one GB is equal to one billion bytes and one TB equals 1,000GB (one trillion bytes). Actual user capacity may be less due to operating environment.

[2] Advanced Format drive: 4K (4096-byte) physical sectors.

[3] Portion of buffer capacity used for drive firmware.

[4] Based on internal testing; performance may vary depending on host environment, drive capacity, logical block address (LBA), and other factors. The location of the max rate is at approximately 10% into the capacity of the HDD. 1MiB = 1,048,576 bytes (2^{20}), 1MB = 1,000,000 bytes (10^{6}).

[5] Projected values. Final AFR specifications will be based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions, typical workload and 40°C device-reported temperature. Derating AFR will occur above these parameters, up to 550TB/year and 60°C (device reported temperature). AFR ratings do not predict an individual drive's reliability and do not constitute a warranty.

[6] Idle specification is based on use of Idle_A.

[7] 5°C ambient temperature, 60°C device reported temperature.

[8] See https://www.westerndigital.com/support for regionally specific warranty details.

How to Read the Ultrastar Model Number

WUS7212tbCLxxyz

W = Western Digital
U = Ultrastar
S = Standard
72 = 7200 RPM
12 = Maximum Capacity (12TB)
tb = Capacity this model
- 04 = 4TB
- 06 = 6TB
- 08 = 8TB

C = Generation code
L = 26.1 z-height (mm)
xx = Interface
- E6 = 512e SATA 6 Gb/s
- N6 = 4Kn SATA 6 Gb/s
- 52 = 512e SAS 12Gb/s
- 42 = 4Kn SAS 12Gb/s

y = Power Disable Pin 3 status
- 0 = Power Disable Pin 3 support
- L = Legacy Pin 3 config no Power Disable

z = Data Security Mode
- 0 = Instant Secure Erase (ISE)
- 1 = SED*: Self Encrypting Drive TCG-Enterprise and Sanitize Crypto Scramble Erase
- 4 = Base (SE)*: No Encryption. Sanitize Overwrite only.
- 5 = SED-FIPS*: SED with Certification (SAS Only)

*ATA Security Feature Set comes standard on SATA

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