



7200 RPM | 6 Gb/s SATA

Highlights

- A range of capacities up to 26TB are engineered for demanding applications and workloads.
- An ideal edge storage option for design professionals working with today's highest-performing tower workstations.
- Five-year limited warranty supports enhanced levels of dependability and durability.
- High HDD capacities allow data scientists to retain iterative AI models and generative AI outputs.
- Allows creative professionals in several fields to invest in best in class HDD storage.

Target Audience

- Design Professionals
- AI / ML Data Scientists
- Film / Content Editors
- Music Studio Engineers
- "Digital Twin" Storage

Ideal For

- AI Training Data Storage
- Deskside and Agentic AI
- Archiving 4K / 8K Video
- Social Media Streaming
- Film and Music Editing
- Industrial Design / CAD

WD Gold® Enterprise Class SATA HDD

The Drive Behind AI

WD Gold® HDDs provide high performance tower workstations, agentic and desktide AI PCs, and SATA-capable servers with enterprise-class capacity, durability, and high uptime I/O. WD Gold® drives allow design and creative professionals to invest in datacenter quality HDD storage enabling AI capabilities at the edge. This can reduce cloud and token costs, enhance data security, and retain generative AI content locally where data is increasingly created and controlled.

Enabling Agentic and Desktide AI

WD Gold® HDDs provide the foundation for faster insights, greater control, and scalable AI performance at the edge and at your desk. As businesses and several categories of design professionals embrace AI at the edge, high-capacity and reliable storage to run AI models locally become a critical necessity.

Delivering Cost-Efficient Storage

WD Gold enables secure, cost-efficient AI by keeping data on-prem, reducing latency, reducing egress fees and other cloud costs, and enhancing the security of sensitive information.

Providing Durability and High I/O

With capacities up to 26TB¹, enterprise-class durability, and the ability to handle heavy workloads, WD Gold® makes it possible to store massive datasets, power continuous AI inference directly from AI-capable workstations, and store often iterative generative AI outputs.

Built For Demanding Use Cases

Customize your business's storage mix to fit your specific needs with hard drives in capacities of up to 26TB¹ engineered for demanding applications and read-write workloads of up to 550TB² per year.

Enhanced Reliability

With a five-year limited warranty³ supporting up to 2.5M hours MTBF⁴, WD Gold® hard drives deliver enhanced levels of dependability and durability.

Robustness For Tough Environments

WD's exclusive Rotational Vibration Safeguard (RVS) uses dual sensors to anticipate and counteract disturbances, maintaining peak performance in high-vibration environments. ArmorCache™ technology (available in 22TB and above) is a Western Digital-only feature that provides enterprise power loss protection of your data in write-cache enabled (WCE) mode while increasing performance in write-cache disabled (WCD) mode.



Data Sheet

WD Gold® Enterprise Class SATA HDD

Specifications

Model Number	WD261KRYZ	WD242KRYZ	WD221KRYZ	WD203KRYZ	WD181KRYZ
Formatted capacity ¹	26TB	24TB	22TB	20TB	18TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Drive Technology	Helium	Helium	Helium	Helium	Helium
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 GB/s	SATA 6 Gb/s
512n / 512e user sectors per drive ⁵	512e	512e	512e	512e	512e
OptiNAND™ technology	Yes	Yes	Yes	No	No
ArmorCache™	Yes	Yes	Yes	No	No
RoHS compliant ⁶	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rate ⁷ (max sustained)	285MB/s	279MB/s	291MB/s	285MB/s	269MB/s
RPM	7200	7200	7200	7200	7200
Cache (MB) ^{1, 8}	512MB	512MB	512MB	512MB	512MB
Power Management					
Average power requirements (W)					
Operational ⁹	6.7W	6.7W	7.1W	6.4W	6.5W
Idle ¹⁰	5.6W	5.6W	5.7W	5.3W	5.6W
Power efficiency index (W/TB, idle)	0.22	0.23	0.26	0.27	0.31
Reliability					
MTBF (hours, projected) ⁴	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Annualized Failure Rate ⁴ (AFR, %)	0.35	0.35	0.35	0.35	0.35
Limited Warranty ³	5 years	5 years	5 years	5 years	5 years
Environmental					
Operating temperature ¹¹	5°C to 60°C	5°C to 60°C	5°C to 60°C	5°C to 60°C	5°C to 60°C
Non-operating temperature	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C
Shock (Read/Write) Operating (half-sine wave, 2ms)	40G/40G	40G/40G	40G/40G	50G/50G	50G/50G
Non-operating (half-sine wave, 2ms)	200G	200G	200G	250G	250G
Acoustics (average) Idle Mode					
Acoustics (average) Idle Mode	25 dBA	25 dBA	20 dBA	20 dBA	20 dBA
Seek Mode	32 dBA	32 dBA	32 dBA	32 dBA	36 dBA
Physical Dimensions					
Height (max)	26.1mm	26.1mm	26.1mm	26.1mm	26.1mm
Length (max)	147.0mm	147.0mm	147.0mm	147.0mm	147.0mm
Width (± .01 in.)	101.6mm	101.6mm	101.6mm	101.6mm	101.6mm
Weight	1.47 lb (.67 kg) ±10%	1.47 lb (.67 kg) ±10%	1.47 lb (.67 kg) ±10%	1.52 lb (.69 kg) ±10%	1.52 lb (.69 kg) ±10%

WD Gold® Enterprise Class SATA HDD

Specifications

Model Number	WD161KRYZ	WD142KRYZ	WD122KRYZ	WD103KRYZ	WD8006FRYZ
Formatted capacity ¹	16TB	14TB	12TB	10TB	8TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Drive Technology	Helium	Helium	Air	Air	Air
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
512n / 512e user sectors per drive ⁵	512e	512e	512e	512e	512e
OptiNAND™ technology	No	No	No	No	No
ArmorCache™	No	No	No	No	No
RoHS compliant ⁶	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rate ⁷ (max sustained)	262MB/s	262MB/s	267MB/s	267MB/s	275MB/s
RPM	7200	7200	7200	7200	7200
Cache (MB) ^{1, 8}	512MB	512MB	512MB	512MB	256MB
Power Management					
Average power requirements (W)					
Operational ⁹	6.5W	6.5W	9.2W	9.2W	9.5W
Idle ¹⁰	5.6W	5.6W	8.4W	8.3W	6.5W
Power efficiency index (W/TB, idle)	0.35	0.4	0.7	0.84	1.2
Reliability					
MTBF (hours, projected) ⁴	2,500,000	2,500,000	2,000,000	2,000,000	2,000,000
Annualized Failure Rate ⁴ (AFR, %)	0.35	0.35	0.44	0.44	0.44
Limited Warranty ³	5 years	5 years	5 years	5 years	5 years
Environmental					
Operating temperature ¹¹	5°C to 60°C	5°C to 60°C	5°C to 60°C	5°C to 60°C	5°C to 60°C
Non-operating temperature	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C
Shock (Read/Write) Operating (half-sine wave, 2ms)	50G/50G	50G/50G	70G/70G	70G/70G	70G/70G
Non-operating (half-sine wave, 2ms)	250G	250G	250G	250G	300G
Acoustics (average) Idle Mode					
Acoustics (average) Idle Mode	20 dBA	20 dBA	34 dBA	34 dBA	29 dBA
Seek Mode	36 dBA	36 dBA	39 dBA	39 dBA	36 dBA
Physical Dimensions					
Height (max)	26.1mm	26.1mm	26.1mm	26.1mm	26.1mm
Length (max)	147.0mm	147.0mm	147.0mm	147.0mm	147.0mm
Width (± .01 in.)	101.6mm	101.6mm	101.6mm	101.6mm	101.6mm
Weight	1.52 lb (.69 kg) ±10%	1.52 lb (.69 kg) ±10%	1.65 lb (.75 kg) ±10%	1.65 lb (.75 kg) ±10%	1.58 lb (.715 kg) ±10%

WD Gold® Enterprise Class SATA HDD

Specifications

Model Number	WD8005FRYZ	WD6005FRYZ	WD6004FRYZ	WD4005FRYZ	WD4004FRYZ
Formatted capacity ¹	8TB	6TB	6TB	4TB	4TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Drive Technology	Air	Air	Air	Air	Air
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
512n / 512e user sectors per drive ⁵	512e	512e	512e	512e	512e
OptiNAND™ technology	No	No	No	No	No
ArmorCache™	No	No	No	No	No
RoHS compliant ⁶	Yes	Yes	Yes	Yes	Yes
Performance					
Data transfer rate ⁷ (max sustained)	267MB/s	275MB/s	267MB/s	275MB/s	267MB/s
RPM	7200	7200	7200	7200	7200
Cache (MB) ^{1, 8}	256MB	256MB	256MB	256MB	256MB
Power Management					
Average power requirements (W)					
Operational ⁹	8.0W	9.5W	8.0W	9.5W	7.0W
Idle ¹⁰	6.7W	6.5W	6.7W	6.5W	5.8W
Power efficiency index (W/TB, idle)	0.84	1.2	1.12	1.2	1.45
Reliability					
MTBF (hours, projected) ⁴	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Annualized Failure Rate ⁴ (AFR, %)	0.44	0.44	0.44	0.44	0.44
Limited Warranty ³	5 years	5 years	5 years	5 years	5 years
Environmental					
Operating temperature ¹¹	5°C to 60°C	5°C to 60°C	5°C to 60°C	5°C to 60°C	5°C to 60°C
Non-operating temperature	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C
Shock (Read/Write) Operating (half-sine wave, 2ms)	70G/70G	70G/70G	70G/70G	70G/70G	70G/70G
Non-operating (half-sine wave, 2ms)	300G	300G	300G	300G	300G
Acoustics (average) Idle Mode					
Acoustics (average) Idle Mode	29 dBA	29 dBA	29 dBA	29 dBA	29 dBA
Seek Mode	36 dBA	36 dBA	36 dBA	36 dBA	36 dBA
Physical Dimensions					
Height (max)	26.1mm	26.1mm	26.1mm	26.1mm	26.1mm
Length (max)	147.0mm	147.0mm	147.0mm	147.0mm	147.0mm
Width (± .01 in.)	101.6mm	101.6mm	101.6mm	101.6mm	101.6mm
Weight	1.58 lb (.715 kg) ±10%	1.58 lb (.715 kg) ±10%	1.58 lb (.715 kg) ±10%	1.58 lb (.715 kg) ±10%	1.58 lb (.715 kg) ±10%

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 Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred X (8760 / recorded power-on hours)). Workload Rate will vary depending on your hardware and software components and configurations.

³ See support.wdc.com for region-specific warranty details.

⁴ Projected values for model numbers WD8006FRYZ, WD6005FRYZ, and WD4005FRYZ. Final MTBF and AFR specifications are based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions, workloads of 220TB/year, and 40°C device-reported temperature. Derating of MTBF and AFR will occur above these parameters, up to 550TB/ year and 60°C (device reported temperature). MTBF and AFR ratings do not predict an individual drive's reliability and do not constitute a warranty.

⁵ 512e: Advanced Format drive with 512-byte logical sectors and 4K (4096-byte) physical sectors; 512n: Native 512-byte logical and physical sectors.

⁶ This drive is in compliance with the European Union Directive 2011/65/EU and Directive (EU) 2015/863 on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment.

⁷ 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, logical block address (LBA), and other factors.

⁸ Portion of buffer capacity used for drive firmware.

⁹ Random RW 50/50 4KB QD=4 @40 IOPS.

¹⁰ Based on use of Idle_A.

¹¹ 5°C ambient temperature, 60°C device reported temperature.



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