



Data Sheet

Accelerate. Dominate. Endure.

Massive storage and superior performance built for the long haul.



Expand your potential and build your dream rig with FireCuda® HDD. Ideal for serious gamers and creative pros alike, this HDD dominates.



Key Features

Enjoy massive capacity and build your ultimate Game Vault without sacrifice with capacity options up to 8TB.

Access data faster with 7200-RPM speeds and SATA 6Gb/s interface.

Achieve new performance heights with a large 256MB cache to load applications and files faster.

Obtain maximum sustained transfers at 255MB/s.

Experience flexible, easy installs with a standardized 3.5in form factor and SATA III 6Gb/s interface.

Benefit from CMR recording technology for higher endurance and faster reads and writes.

Pair FireCuda HDD with a FireCuda SSD for a high-performance secondary drive.

Easily migrate and clone data from old drives, create and format partitions, transfer data, and back up data for increased security using the free Seagate DiscWizard™ software.

Seamlessly monitor drive health, performance, and firmware updates using the free SeaTools™ software download.

Worry less with the included 3-year Rescue Data Recovery Services and Seagate's 5-year limited warranty.



Specifications	8TB	4 TB
Standard Model Numbers	ST8000DX001	ST4000DX005
Bytes per Sector - Advanced Format (512E)	512	512
Form Factor	3.5"	3.5"
Performance class	7200rpm	7200rpm
Performance		
Interface	SATA 6Gb/s	SATA 6Gb/s
Max Sustained Data Rate, OD Read (MB/s)	260MB/s	256MB/s
Cache, Multisegmented (MB)	256	256
Recording Technology	CMR	CMR
Reliability/Data Integrity		
Load/Unload Cycles	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8760	8760
Data Recovery and Rescue Services	3	3
Workload Rate Limit (TB/Year)	300	300
Warranty, Limited (years)	5	5
Power Management		
Operating Mode, Typical (W)	9.0W	7.2W
Idle Average (W)	6.1W	3.8W
Standby Mode/Sleep Mode, Typical (W)	1.0/1.0	1.0/1.0
Environmental/Temperature		
Operating	5° to 60°C (Drive Reported Temperature)	5° to 60°C (Drive Reported Temperature)
Nonoperating (ambient)	-40°C – 70°C	-40°C – 70°C
Halogen Free	Yes	Yes
RoHS Compliance	Yes	Yes
Shock, Operating 2ms Read/Write (Gs)	70G Read/ 40G Write	70G Read/ 40G Write
Shock, Nonoperating, (2ms) (Gs)	300G	300G
Acoustics (Idle typical)	2.8 bels	2.8 bels
Acoustics (Seek typical)	3.2 bels	3.2 bels
Physical		
Height (mm/in, max)	26.10mm/1.028in	26.10mm/1.028in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max)	147.00mm/5.787in	147.0mm/5.787in
Weight (g/lb, typical)	716g/1.58lb	620g/1.37lb
Carton Unit Quantity	20	20
Cartons per Pallet/Cartons per Layer	40 / 8	40 / 8

The amount of memory (measured in gigabytes or terabytes) that can be stored in a disc drive. Usually given as formatted capacity (see format operation). One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one thousand billion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions and will not be available for data storage.

A drive's interface manages the exchange of data between the drive and a computing device.

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