



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 8 TB.

Access data faster with 7,200 RPM speeds and SATA 6 Gb/s interface.

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

Obtain maximum sustained transfers at 255 MB/s.

Experience flexible, easy installation with a standardized 3.5 in form factor and SATA III 6 Gb/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	8 TB	4 TB
Capacity	8TB	4TB
Standard Model Numbers	ST8000DX001	ST4000DX005
Bytes per Sector - Advanced Format (512E)	512	512
Form Factor	3.5"	3.5"
Performance class	7,200 rpm	7,200 rpm
Performance		
Interface	SATA 6Gb/s	SATA 6Gb/s
Max Sustained Data Rate, OD Read (MB/s)	260MB/s	256MB/s
Cache, Multi-segmented (MB)	256	256
Recording Technology	CMR	CMR
Reliability/Data Integrity		
Load/Unload Cycles	300,000	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8,760	8,760
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
Idling Average (W)	6.1 W	3.8 W
Standby Mode/Sleep Mode, Typical (W)	1/1	1/1
Environmental/Temperature		
Operating	5° to 60°C (Drive Reported Temperature)	5° to 60°C (Drive Reported Temperature)
Non-operating (ambient)	-40°C – 70°C	-40°C – 70°C
Halogen-free	Yes	Yes
RoHS compliance	Yes	Yes
Shock, Operating 2 ms Read/Write (Gs)	70G Read/ 40G Write	70G Read/ 40G Write
Shock, Non-operating, (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)	26.1 mm/1.028 in	26.1 mm/1.028 in
Width (mm/in, max)	101.85 mm/4.01 in	101.85 mm/4.01 in
Depth (mm/in, max)	147 mm/5.787 in	147 mm/5.787 in
Weight (g/lb, typical)	716 g/1.58 lb	620 g/1.37 lb
Carton Unit Quantity	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8
Retail Packaging Weight (lb/kg)	1.832/0.831	1.621/0.735
Retail Packaging Master Carton Dimensions (lb/kg)	9.25/4.194	8.4/3.81

The amount of memory (measured in gigabytes or terabytes) that can be stored on 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 trillion bytes. Your computer 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 thus will not be available for data storage.

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



Specifications						
Retail Packaging		Box Dimensions		Master Carton Dimensions		Pallet Dimensions
Length (in/mm)		6 in/152.4 mm		16 in/406.4 mm		48 in/1,219.2 mm
Width (in/mm)		2.5 in/63.5 mm		5.374 in/136.5 mm		40 in/1,016 mm
Depth (in/mm)		7.752 in/196.9 mm		6.5 in/165.1 mm		43 in/1,092.2 mm
Weight (lb/kg)		—		—		—
Quantities						
Boxes per Master Carton		4				
Master Cartons per Pallet		126				
Pallet Layers		6				
Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ST4000DXA05	4TB	5	763649173848	8719706430449	10763649173845
WW	ST8000DXA01	8TB	5	763649173862	8719706430463	10763649173869

seagate.com



© 2021 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. FireCuda and the FireCuda logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion 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 thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and drive capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2089.1-2112GB December 2021