



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)	9.0 W	7.2 W
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)
Halogen Free & ROHS Compliance	Yes	Yes
Non-operating (ambient)	-40°C – 70°C	-40°C – 70°C
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)/Acoustics (Seek typical)	2.8 bels/3.2 bels	2.8 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

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