

3.5 SSHD DATA SHEET

**Ferocious Performance.  
Superior Storage. Tireless Durability.**



FireCuda® 3.5-inch solid state hard drives blend SSD technology with an HDD platform for the instant-on performance and capacity you need.



### Best-Fit Applications

- Desktop PCs
- PC gaming
- Workstations
- High-performance direct-attached storage (DAS) devices

## Key Advantages

**Smart 1 TB and 2 TB** capacities with onboard flash memory.

**Save time** with a drive that boots in seconds, not minutes.<sup>1</sup>

**A perfect upgrade** for gamers, creative professionals and PC enthusiasts who want it all, now!

**Game up to 5× faster** than with traditional 7,200 RPM hard drives, and eliminate the need to uninstall games in order to make room for new ones. Store up to 40 games per TB (at ~25 GB per game).<sup>1</sup>

**SATA 6 Gb/s** interface speed.

**Installs and operates** like a standard hard drive. No additional drivers or software required.

**The cutting edge never felt so safe** — 5-year limited warranty is best-in-class for hard drive warranties.

<sup>1</sup> Performance may vary depending on user's hardware configuration and operating system.



Specifications	2TB	1TB
Standard Model Numbers	ST2000DX002	ST1000DX002
Interface	SATA 6 Gb/s NCQ	SATA 6 Gb/s NCQ
Form Factor (in)	3.5	3.5
<b>Features and Performance</b>		
NAND Type/Size	MLC/8 GB	MLC/8 GB
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	6.0/3.0/1.5
Seek Average, Read (ms)	<9.5	<8.5
Seek Average, Write (ms)	<9.5	<8.5
Average Data Rate, Read, Avg All Zones (MB/s)	156	156
Average Data Rate From NAND Media (MB/s)	190	190
Max Sustained Data Rate, OD Read (MB/s)	210Mb/s	210Mb/s
DRAM Cache (MB)	64	64
Recording Technology	CMR	CMR
<b>Configuration/Organization</b>		
Heads/Discs	4/2	2/1
Bytes per Sector	4,096	4,096
<b>Reliability/Data Integrity</b>		
Load/Unload Cycles	300,000	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Predicted Annualised Failure Rate (AFR)	<1%	<1%
Warranty, Limited (years)	5	5
<b>Power Management</b>		
Operating Power, Typical (W)	6.7	5.9
Idle2 Power, Typical (W)	4.5	3.36
Standby Mode/Sleep Mode, Typical (W)	0.75/0.75	0.63/0.63
<b>Environmental</b>		
Temperature, Operating (°C)	0 to 60	0 to 60
Temperature, Non-operating (°C)	-40 to 70	-40 to 70
<b>Physical</b>		
Height (mm/in, max)	26.11 mm/1.028 in	19.87 mm/0.782 in
Width (mm/in, max)	—	—
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (g/lb, typical)	535 g/1.18 lb	400 g/0.88 lb
Carton Unit Quantity	20	25
Cartons per Pallet / Cartons per Layer	40/8	40/8