TOSHIBA



STORAGE SOLUTIONS HARD DISK DRIVES FOR PROFESSIONAL & PERSONAL USE



toshiba-storage.com



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The right hard disk drive for every mission

No storage requirement is the same. On our journeys, we generate an increased amount of data, day in, day out.

Be it for private or professional use, server-based storage, video surveillance, gaming or stylish mobile solutions, Toshiba delivers the right hard disk drives for a variety of storage needs.

Toshiba's external storage product range is categorized into different classes - Standard, Advanced, Premium and Specialty - addressing the individual storage requirements of users and helping them to find the perfect fit for their storage needs, whether it's a solution for simple plug-and-play operation, gaming or cross-platform use for Mac, Windows PC and tablets.

Toshiba's internal HDDs are divided into application areas for private and professional use, including NAS, surveillance and high-performance drives. Additionally, the extensive line-up of Enterprise storage solutions meet highest requirements to support business- and mission-critical applications.

For over 50 years Toshiba has been developing and delivering high-quality hard disk drives to the market. View the current portfolio on the following pages and find your perfect storage solution.

Everything is possible - with the right partner and hard disk drive.

Toshiba Storage Solutions



Portable Storage

Storage is one of the most vital components of our ever-expanding digital lifestyles. In order to suit various demands, Toshiba offers a custom-designed range of external storage products to simplify your everyday life. Whether you are looking for a hard drive with autobackup software for your laptop or PC, or a safe place for your blogging content – with Toshiba you will find the right solution.

Our external storage product line-up is categorized according to performance criteria and features. With clear colour codings and shopping guides, customers immediately know which products best





Premium



Make no compromises - every device should fit your style and exceed your expectations. In the world of design, special details make the

difference. That's what makes the Canvio Slim our top line of hard drives. Premium reliability and performance are packed into a slim aluminium casing that looks great. And there are extras you won't find on most hard drives, like software for added protection and a 3-year extended warranty. Everything is possible - with the right drive.



Standard

Save your special memories on a special STANDARD hard drive.

Life flies by quickly. Before you know it, the kids are grown up and memories of the great times start to fade. Make your Toshiba Canvio Basics or Canvio Ready the treasure chest for all the special moments. It's easy to keep your memories safe and revisit them in clear detail later. Everything is possible - with the right drive.

Specialty

SPECIALT TOSHIBA

Hard drives with something special built in.

There are times when ordinary drives are not good enough for special storage needs. Whether it's a high-performance storage upgrade for your gaming console or a drive that is compatible with your

growing stable of devices, you can be sure to find the right solution in the Canvio Gaming or the Canvio Flex. Everything is possible – with the right drive.



Advanced



When your journey leads you to stunning places, you need a safe place to store all the impressions.

Life is full of adventure. Every day there are memories to save and new experiences to report on. The Canvio Advance line of hard drives are your perfect companions. You get high-performance, top-quality and advanced functions in a modern design. And since security and backup software are included, you can rest assured your data is always safe. Everything is possible - with the right drive.



Canvio Flex

Smart Storage. Made to Adapt. For Mac, Windows PC and Tablets.



SPECIALTY toshiba

Canvio Fle

Colour

Capacities

2

TB TB TB

4

One Drive. Many Devices.

2.5" 2.5" External Hard Drive

SuperSpeed USB 3.2 Gen 1 port

Includes USB Type-C[®] and

Mac / Windows PC / Tablet

USB Type-A cables

Compatible with

Elegant silver finish

USB-powered

3 3-year warranty

The Canvio Flex offers storage in its most compatible form, enabling you to seamlessly store and access your data on Mac, Windows PC and tablet devices with USB-C[®] ports^{*} with a simple one-stop solution.

Canvio Gaming

Level up your Storage.



More Games. More Wins.

With the Canvio Gaming portable hard drive, you won't have to worry about deleting games to make room for the hottest new release. The sleek, lightweight design allows you to hold up to 100 games^{**} in an easy to carry lightweight casing. Offering up to 4 TB of storage capacity for your data, your gaming library has room to grow.



Canvio Slim

All of the Room. None of the Weight.



Stylish and elegant companion.

Up to 2 TB stored in a super slim and lightweight aluminium design, make this drive a stylish and elegant companion for any device, whether it is on your desk or on the move. With several useful features and a three-year product warranty, the Canvio Slim keeps your data well protected. Available in two different colours: silver or black, the Canvio Slim always suits the occasion.





* Please check device compatibility

View more

** Average game size: 36 GB



Canvio Advance

Secured in Style. Take Life Anywhere.





Modern design.

The Canvio Advance features a stylish, textured design in four trendy colours. You can choose from black, light beige, red and green based on your preference for up to 4 TB of mobile storage in the plam of your hand.

- 2.5" 2.5" External Hard Drive
- > Textured finish
- SuperSpeed USB 3.2 Gen 1 port
- USB-powered
- Auto-backup software
- Password protection software





Capacities





View more

Canvio Basics

Storage Made Simple.



STANDARD * **toshiba**

Your compact companion.

2.5" 2.5" External Hard Drive

 $\vec{\mathbf{r}}$ Plug-and-play operation

SuperSpeed USB 3.2 Gen 1 port

Matt finish

USB-powered

High capacity storage in a conveniently compact, matt black casing. Available in several capacity sizes up to 4 TB, Canvio Basics hard drives are perfect for storing data, music, movies, and pictures.

Canvio Ready

Ready to Store. Simple to Use.



STANDARD * toshiba

A place for all your files.

The Canvio Ready is available in a range of different storage sizes up to 4 TB. So whatever your portable storage requirements, whether you're saving documents, photos, movies, or a combination, Canvio Ready provides the ideal, high-capacity solution in its distinctive two-tone matte and gloss black finish.

2.5" 2.5" External Hard Drive

- 💬 Two-tone matte and gloss finish
- SuperSpeed USB 3.2 Gen 1 port
- USB-powered
- Drag-and-drop use



Colour

Capacities 4 2 1





Technical data

						USB Con-			Other	Backup	Passwo
Model	Category	Casing	Part Number	Capacity	Interface	nector Type	PC	Мас	Compatibility	Software	Protect
Canvio Flex 🄫											
			HDTX140ESCCA	4 TB							
	SPECIALTY	Elegant silver finish	HDTX120ESCAA	2 TB	USB 3.2 Gen 1	Type-C [®] &	~	~		-	-
	TOSHIBA	Silver millish	HDTX110ESCAA	1 TB		Туре-А			iOS / Android™		
construction of the			IID IXIIOLOGI II	110					devices ²	_	
Canvio Gaming 🏶											
			HDTX140EK3CA	4 TB		Type-A	✓	~			
	SPECIALTY TOSHIBA	Sleek black finish	HDTX120EK3AA	2 TB	USB 3.2 Gen 1					-	-
			HDTX110EK3AA	1 TB					PlayStation /		
Canvio Slim ***									Xbox ²		
			HDTD320EK3EA	2 TB		Type-A	•	√ 1	-	•	*
			HDTD310EK3DA	1 TB	USB 3.2 Gen 1						
	PREMIUM *** TOSHIBA	Aluminium finish		2.75							
			HDTD320ES3EA	2 TB							
			HDTD310ES3DA	1 TB							
Canvio Advance *	*										
			HDTCA40EK3CA	4 TB							
		Textured finish	HDTCA20EK3AA	2 TB							
		miiisii	HDTCA10EK3AA	1 TB							
			HDTCA40ER3CA	4 TB							
		Textured finish	HDTCA20ER3AA	2 TB							
	ADVANCED	1111511	HDTCA10ER3AA	1 TB							
	ADVANCED ** TOSHIBA		HDTCA40EW3CA	4 TB	USB 3.2 Gen 1	Type-A	~	✓1	-	~	~
		Textured	HDTCA20EW3AA	2 TB							
		finish	HDTCA10EW3AA	1 TB							
			HDTCA40EG3CA	4 TB							
		Textured	HDTCA20EG3AA	2 TB							
		finish	HDTCA20EG3AA	2 TB 1 TB							
			HDICAIOEGSAA	TIP						_	
Canvio Basics ★											
	CTANDADD		HDTB540EK3CA	4 TB							
	STANDARD * TOSHIBA	Matt	HDTB520EK3AA	2 TB	USB 3.2 Gen 1	Type-A	✓	✓1	-	-	-
And in case of the local division of the loc			HDTB510EK3AA	1 TB							
Canvio Ready ★		Two-toned		4 TD							
Canvio Ready *	CTINESSO	Two-toned	HDTP340EK3CA	4 TB							
Canvio Ready *	STANDARD * TOSHIBA	Two-toned matte and gloss finish	HDTP340EK3CA HDTP320EK3AA	4 TB 2 TB	USB 3.2 Gen 1	Type-A	✓	✓1	-	-	-

USB Type-C[®] and USB-C[®] are registered trademarks of USB Implementers Forum. Android is a trademark of Google LLC. Mac and macOS are trademarks of Apple Inc. Microsoft, Windows and Xbox are trademarks of the Microsoft group of companies. "PlayStation" is a registered trademark or a trademark of Sony Interactive Entertainment Inc. Canvio Gaming: Estimated game storage is based on assumption of average game size of 36 GB for current generation games. The number of games actually stored may vary depending on file size, formating, console software, and other programs or factors. Original discs may be required to verify ownership for games purchased and loaded from disc. Internet connection and original game owner's account may be required.



Capacities

4 2 1 тв тв тв



View more

External HDDs

¹ Requires reformatting for macOS. ² Please check compatibility list.

Quality in every detail

Best materials, highly rated hard drive disks and fast controllers: That is what Toshiba external storage is made of.



Hard Drives Toshiba quality 2.5" hard drive disks with up to 4 TB capacity

Micro-B USB 3.2 Gen 1

HDD interface connector

Controller Fast USB 3.2 onboard controller as part of the HDDs circuit board layout

Software

9

Password Protection

Stop unauthorised users from accessing your private information with the included Toshiba Storage Security Software, allowing you to secure your hard drive with a unique password.

Backup Software

The included Toshiba Storage Backup Software comes with an intuitive and userfriendly interface, making the backup of your data a breeze. Simply choose your individual files or folders, intervals and time settings for your backups and let the software take care of the rest.

USB Type-C® – Future-proof solution

Be prepared for connectivity of the future.

Most modern devices nowadays come with an USB-C® interface. That's why some of our hard drives include an USB-C[®] cable, so there's no need to buy an additional adapter. Ready to plug in to future devices out of the box.

Advanced HDD Technology – FC-MAMR

Toshiba's high capacity HDDs feature Flux Control Microwave Assisted Magnetic Recording (FC-MAMR) Technology – a breakthrough technology that uses microwave energy to ensure more of the write energy is focused into the platter, achieving an increased areal density capability (ADC) of up to 20 %.

Laser sealed helium

The Toshiba HDDs with 12 TB or more use a helium-sealed design, providing the powerefficient capacity and storage density needed by cloud-scale and enterprise storage solution providers to achieve their TCO objectives. Toshiba's laser welding technology ensures that the helium remains securely sealed inside the drive enclosure.

High Reliability

Providing reliability for the ultimate peace of mind, Toshiba HDDs deliver up to 2.5M hours of MTTF, achieving an AFR (Annualized Failure Rate) in 24/7 operation of down to 0.35 % - at a rated workload as high as 550 TB/year.

Industry-leading 10 disk platter design

The Toshiba 20 TB HDD features a 10-disk platter design - achieving high storage density levels by stacking the maximum numbers of platters in the industry-leading 3.5" form factor.

Built for performance and reliability

Toshiba is renowned the world over for 50 years of leading innovation - and the power behind its hard drive solutions is no exception. Our enterprise-level developments meet the industry standards with proven reliability. Designed for high capacity and excellent performance, you can be sure that Toshiba's wealth of experience in hard drives is at work in your storage system.



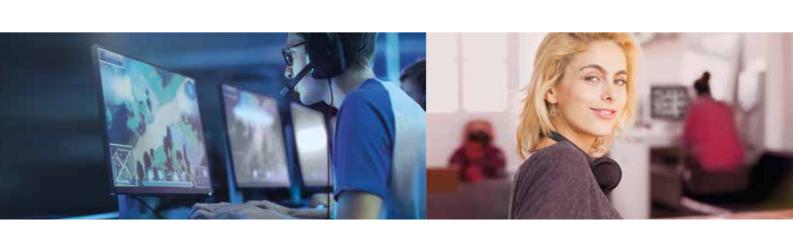
Internal Hard Disk Drives

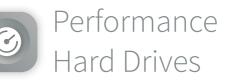
Toshiba offers a broad range of internal hard drives to keep pace with the ever-growing specific requirements of data storage. Choose from a wide range of reliable hard drives that deliver innovative technology and best performance and are tailored to your storage needs. Targeting different application areas such as NAS, Surveillance, Gaming, PC, laptop, and Enterprise storage, Toshiba provides the highest standards to support your personal and business missions.



NAS Hard Drives

Offering special reliability for NAS and other high performance storage systems, Toshiba's NAS drives are optimized to meet the reliability, endurance, performance, and scalability requirements of 24/7 high-capacity storage for personal, home office, and small business use.

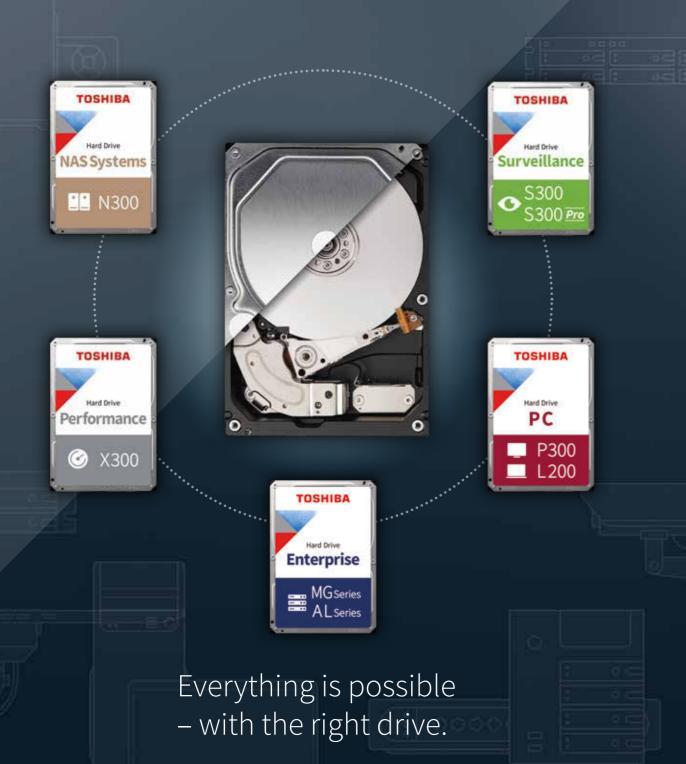




Delivering reliable storage, large capacities, and high performance, Toshiba's Performance hard drives are the perfect choice for PC gamers, graphic designers, and professionals with demanding storage requirements.



Designed for server and storage environments where high data capacity and performance matters, Toshiba's reliable Enterprise drives offer the necessary capacities and performance features required to run business- and mission-critical applications in enterprise, datacenter and cloud environments.







Surveillance Hard Drives

In a society where 24/7 security is essential and real-time data availability is paramount, intelligent surveillance analysis starts with secure and reliable storage. Toshiba's Surveillance drives offer high reliability and are designed to cope with the concurrent access requirements of CCTV systems.

PC Hard Drives

Boost the storage capacity of your laptop, PC, or game console to help ensure fast, stable file transfer, for smooth and responsive computing. Designed for professionals and everyday users who demand high-performing powerful storage.



Internal HDDs

N300

Built for 24/7 reliability

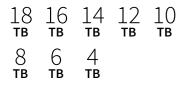


Toshiba's N300

The 3.5-inch internal hard disk offers unprecedented reliability for NAS and other high-performance storage systems. It is optimized to meet the reliability, endurance, performance, and scalability requirements of 24/7 high-capacity storage for personal, home office, and small business use.

- SATA 3.5" SATA Hard Drive
- RPM 7,200 rpm
- 512 MB buffer (18 | 16 | 14 TB) 256 MB buffer (14 | 12 | 10 | 8 | 6 | 4 TB)
- Toshiba Stable Platter Technology
- High reliability and enhanced real-time performance
- High-endurance design
- 3-year warranty

Capacities



Use for:

- NAS and Multimedia Server
- Desktop RAID and Server
- Private Cloud Storage
- Small Business Server and Storage

X300

Level up your drive performance



Toshiba's X300

This 3.5-inch internal hard drive is designed for your professional or gaming PC – delivering reliable, large capacity, incredibly high-performance storage, made possible by a number of advanced features, including an ultra-high 512 MB (14 TB – 18 TB) buffer. It even features improved positional accuracy for stable recording. The X300 is ideal for PC gamers, graphic designers, and other users with demanding storage requirement.

SATA 3.5" SATA Hard Drive

RPM 7,200 rpm

- 512 MB buffer (18 | 16 | 14 TB) 256 MB buffer (12 | 10 | 8 | 6 | 4 TB)
- Toshiba Stable Platter Technology
- Contraction Toshiba Dynamic Cache Technology

Capacities



Use for:

- Powerful Desktop Workstations
- All-in-one PCs
- Gaming computers
- Home Media computers

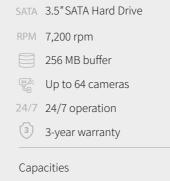
S300 Pro

Capture every detail



Toshiba's S300 Pro

The 3.5-inch internal hard disk is designed and tested for 24/7 reliable surveillance, built for speed, capacity, and longer content retention. Capture and analyse every frame from up to 64 video cameras in high resolution with the S300 Pro. Space is important to continually capture a history of video evidence over a period of time. With up to 10 TB, you get the capacity to record and play back the events in real-time in high resolution and with object identification and face recognition.



10 8 6 тв тв тв

Use for:

- Surveillance Digital Video Recorders (sDVR)
- Surveillance Network Video
- Recorders (sNVR)
- Hybrid sDVR (analog and IP)
- RAID Storage Arrays for Surveillance

S300

Always On, Always Watching



Toshiba's S300

With surveillance systems, nothing but the best is good enough. The Toshiba 3.5-inch S300 is built to meet the highest demands. With support for up to 64 high-resolution surveillance video cameras simultaneiously and up to 6 TB capacity, it brings everything into clear view. Each S300 is built with the highest-quality components and has passed rigorous tests to ensure 24/7 reliability and performance. That's Toshiba quality you can trust under the harshest working conditions.

SATA	3.5" SATA Hard Drive
RPM	5,400 rpm (6 4 2 TB) 5,700 rpm (1 TB)
	256 MB buffer (6 4 TB) 128 MB buffer (4 2 TB) 64 MB buffer (1 TB)
64 <u>4;</u>	Up to 64 cameras
24/7	24/7 operation
3	3-year warranty
Сара	acities
6	4 2 1

Use for:

ТВ ТВ

 Surveillance Digital Video Recorders (sDVR)

ΤВ

ΤВ

- Surveillance Network Video Recorders (sNVR)
- Hybrid sDVR (analog and IP)

Internal HDDs

P300

Performance meets reliability



Toshiba's P300

The 3.5-inch P300 Desktop PC Hard Drive delivers high performance for everyday home or office computing needs. With its two-stage actuator, you can count on smooth, responsive processing power. In addition, your data and media are secured with a loading ramp design to prevent data loss or drive wear and tear. The P300 is available in capacities up to 6 TB.

SATA 3.5" SATA Hard Drive

RPM 5,400 rpm (6 | 4 TB) 7,200 rpm (3 | 2 | 1 TB)

256 MB buffer (2 TB) 128 MB buffer (6 | 4 TB) 64 MB buffer (3 | 1 TB)

Capacities

6 4 3 2 1 тв тв тв тв тв

Use for:

- Desktop Workstations
- All-in-one PCs
- Desktop PCs
- External enclosures

L200

Take your laptop to the next level



Toshiba's L200

This 2.5-inch internal hard drive is designed for everyday laptop users and gamers – and it's ideal for boosting and upgrading the storage capacity of your laptop PC or games console by up to 2 TB. Perpendicular Magnetic Recording and Tunnel Magneto-Resistive technologies also ensure fast, stable recording that makes the most of your hard drive space.

SATA 2.5" SATA Hard Drive

RPM 5,400 rpm

128 MB buffer (2 TB | 1 TB 7 mm) 8 MB buffer (1 TB 9.5 mm | 500 GB 7 mm | 500 GB 9.5 mm)

Toshiba Dynamic Cache Technology

Capacities

2 1 500 тв тв _{св}

Use for:

- Notebooks
- Game consoles
- External enclosures

Technical data

Model	Retail Number	Bulk Number	Capacity	Interface	RPM	Cache	Height	Recording Technology	RAID	24/7 Operation	Warran (years
N300 NAS Har	rd Drive 3.5"										
	-	HDWG51JUZSVA	18 TB			512 MB					
	-	HDWG31GUZSVA	16 TB			512 MB					
Industry	HDWG51EEZSTA	-	14 TB			512 MB					
	-	HDWG21EUZSVA	14 TB			256 MB					
SAS Systems	HDWG21CEZSTA	HDWG21CUZSVA	G21CUZSVA 12 TB SATA 6 Gbit/s 7,200 G11AUZSVA 10 TB Gbit/s 7,200 G480UZSVA 8 TB Gbit/s 7,200 G480UZSVA 6 TB Gbit/s 7,200 G440UZSVA 6 TB Gbit/s 7,200 R51JUZSVA 18 TB France 7,200 R51JUZSVA 16 TB France 7,200 R51JUZSVA 14 TB France 7,200 R11AUZSVA 10 TB France 7,200 R460UZSVA 6 TB France 7,200 R460UZSVA 6 TB France 7,200 T31AUZSVA 10 TB France 7,200 T31AUZSVA 10 TB France 7,200	256 MB	26.1 mm	CMR	✓	✓	3		
and the second	HDWG11AEZSTA	HDWG11AUZSVA	10 TB	0.0.10,0		256 MB					
	HDWG480EZSTA	HDWG480UZSVA	8 TB			256 MB					
	HDWG460EZSTA	HDWG460UZSVA	6 TB			256 MB					
	HDWG440EZSTA	HDWG440UZSVA	4 TB			256 MB					
(300 Perform	ance Hard Drive 3.5"										
	-	HDWR51JUZSVA	18 TB			512 MB					
	-	HDWR31GUZSVA	16 TB	SATA 6		512 MB					
Indexes	HDWR51EEZSTA	HDWR51EUZSVA	14 TB			512 MB				-	2
F	HDWR21CEZSTA	HDWR21CUZSVA	12 TB	SATA 6	7 200	256 MB	20.1	611 5			
Performance	HDWR11AEZSTA	HDWR11AUZSVA	10 TB	Gbit/s	7,200	256 MB	26.1 mm	CMR	-		
	HDWR480EZSTA	HDWR480UZSVA	8 TB			256 MB					
	HDWR460EZSTA	HDWR460UZSVA	6 TB			256 MB					
	HDWR440EZSTA	HDWR440UZSVA	4 TB			256 MB					
5300 Pro Surv	eillance Hard Drive 3	.5"									
IDD-CRA	-	HDWT31AUZSVA	10 TB			256 MB					
Contraction of a	-	HDWT380UZSVA	8 TB		7,200	256 MB	26.1 mm CMR	CMR	✓	✓	3
O 1300H	-	HDWT360UZSVA	6 TB			256 MB					
300 Surveilla	ance Hard Drive 3.5"										
	-	HDWT860UZSVA	6 TB		5,400	256 MB					
	-	HDWT840UZSVA	4 TB		5,400	256 MB		SMR	-		
Serveillance	-	HDWT140UZSVA	4 TB	SATA 6	5,400	128 MB	26.1 mm	CMR	~	✓	3
◆ 5300	-	HDWT720UZSVA	2 TB	Gbit/s	5,400	128 MB		SMR			
	-	HDWV110UZSVA	1 TB		5,700	64 MB		CMR	-		
9300 Desktop	PC Hard Drive 3.5"										
	HDWD260EZSTA	HDWD260UZSVA	6TB		5,400	128 MB					
TODHERA	HDWD240EZSTA	HDWD240UZSVA	4TB		5,400	128 MB		SMR			
Desktop PC	HDWD130EZSTA	HDWD130UZSVA	3TB	SATA 6	7,200	64 MB	26.1 mm	CMR	_	_	2
P300	HDWD320EZSTA	HDWD320UZSVA	2TB	Gbit/s	7,200	256 MB					-
	HDWD110EZSTA	HDWD110UZSVA	1TB		7,200	64 MB		SMR			
200 Laptop P	PC Hard Drive 2.5"										
	-	HDWL120UZSVA	2 TB	SATA C		128 MB	9.5 mm				
10000	-	HDWL12002SVA	2 TB 1 TB	SATA 6 Gbit/s		128 MB	9.5 mm 7.0 mm	SMR			
V	-	HDWL1100ZSVA HDWJ110UZSVA	1 TB			128 MB 8 MB	9.5 mm				
Lightig PC	-	HDWJ105UZSVA	500 GB	SATA 3 Gbit/s	5,400	8 MB	9.5 mm	CHIP	-	-	2
				SATA 6				CMR			
	-	HDWK105UZSVA	500 GB	Gbit/s		8 MB	7.0 mm				

Internal HDDs

AL Series





Use for:

- Mission-Critical Enterprise Server and Storage Systems • Business Database Server with High Workloads
- Big Data Analytics
- Virtualized Storage Systems

Toshiba's AL Series

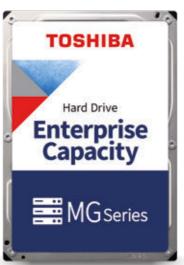
Toshiba's Enterprise Performance Hard Drive – AL Series delivers high storage densities with rapid data transfer speed, backed up by a 5-year warranty. You can trust the AL Series to deliver day in and day out, 24/7, even in the most demanding high-performance server and storage systems. Especially when traffic is high, the hard drives have the speed needed to perform simultaneous transactions smoothly and efficiently. Additionally, proprietary aprovide the assurance that your data will stay in safe hands.

- SAS 2.5" SAS Hard Drive
- 24/7 24/7 operation
- (0)Unlimited workload (TB/year)
- MTTF MTTF of 2 mill. hours
- Persistent Write Cache technology
- <u>512n</u> 4k Flexibility in block size and SIE and SED options
- 5 5-year warranty

AL Series	AL14SX	AL15SE
Capacity (GB)	300 600 900	300 600 900 1,200 1,800 2,400
I/F speed	SAS 12	Gbit/s
RPM	15,000	10,500
Cache	128	MB
MTTF	2.0 mi	ll. hrs.

MG Series

Enterprise Capacity HDD





Business Critical Enterprise

Server and Storage Systems

Cloud and Hyperscale Storage

Industrial Server- and Storage

 Big Data, Distributed File Systems Enterprise Archive and Data

Enterprise Storage Arrays

Recovery Systems

Use for:

Systems

Systems





Toshiba's MG Series

24/7 24/7 operation

550)

<u>512n</u> 4k

5

MG Series		MG04	MG06	MG07		MG08		MG09	MG10		
Capacity (TB)	1	2 4	6 8 10	12 14	4	6 8	16	16 18	20		
I/F speed	-			SAS	12 Gbi	t/s					
i/r speed											
RPM				7,2							
Cache	1	L28 MB			512 MB						
Sector length	512n	512e, 4Kn, 512n	512e,	,4Kn	512e, 512n	512e, 51 512n 51			512e, 4Kn		
MTTF	1.4	mill. Hrs.	2.5 mil	ll. Hrs.	2 mil	l. Hrs.	1	2.5 mill. I	Hrs.		
Sealed		Air		Helium	A	ir	Helium				



Toshiba's Enterprise Capacity Hard Drive - MG Series offers formatted capacities as high as 18 TB with interface options including SATA and SAS and delivers 24/7 operation at a workload of 550 TB/year. The MG Series is ideal for enterprise storage array and industrial server and storage systems. It provides the capacity and advanced technologies to meet the special demands of datacenter and cloud-scale infrastructures.

SATA 3.5" SATA or SAS Hard Drive

- Toshiba Stable Platter Technology
- Persistent Write Cache technology
- 550 TB/year workload
- Flexibility in block size and SIE and SED options

Technical data

						Specification					Perfor	nance	
	Model Number	Form- factor	Fill Gas & Recording	Capacity (GB)	Block Size (Byte)	Spindle Speed (RPM)	Buffer Size (MiByte)	Interface	Security Options		Data Rate (sustained) (MB/s)	Operating Power (W) typ.	MTTF (hrs)
	HIGHEST PERFORMAN	NCE HDD (15K RPM) FOR	R SERVERS – BL	ISINESS DATABASE	E, ONLINE TRANSAC	TION, HIGH PERFO	ORMANCE COMPUT	ING				
	AL14SXB30EN			300									
	AL14SXB60EN			600	512n	15,000	128	SAS 12 Gbit/s	SIE/SED		272	9.0	2.0 mill.
	AL14SXB90EN			900				12 00100					
	AL14SXB30EE			300									
	AL14SXB60EE	2.5"	Air CMR	600	512e	15,000	128	SAS 12 Gbit/s	SIE/SED		304	9.0	2.0 mill.
	AL14SXB90EE			900									
TOSHIRA	AL14SXB30EA			300				SAS					
	AL14SXB60EA			600	4Kn	15,000	128	12 Gbit/s	SIE/SED		304	9.0	2.0 mill.
Enterprise Performance	AL14SXB90EA			900									
I ALtern	PERFORMANCE HDD	(10K RPM) FOR SERVER	S AND STORAG	E – MISSION CRITI	CAL BUSINESS DATA	BASE AND HIGH P	ERFORMANCE STO	RAGES				
and a second second	AL15SEB030N			300							236	6.5	
AL Series	AL15SEB060N			600	512n	10,500	128	SAS	SIE/SED			7.0	2.0 mill.
	AL15SEB090N			900	51211	10,500	120	12 Gbit/s	SIE/SED		245	7.0	2.0 mm.
Entornrico	AL15SEB120N			1,200								8.1	
Enterprise	AL15SEB06EQ			600						_		6.5	
Performance	AL15SEB09EQ			900				SAS				7.0	
HDD	AL15SEB12EQ	2.5"	Air	1,200	512e	10,500	128	12 Gbit/s	SIE/SED		273	7.0	2.0 mill.
	AL15SEB18EQ		CMR	1,800								8.1	
	AL15SEB24EQ			2,400								8.7	
	AL15SEB06EP			600								6.5	
	AL15SEB09EP			900				SAS		_		7.0	
	AL15SEB12EP			1,200	4Kn	10,500	128	12 Gbit/s	SIE/SED		273	7.0	2.0 mill.
	AL15SEB18EP			1,800								8.1	
	AL15SEB24EP			2,400								8.7	

Footnotes

- Definition of capacity: A gigabyte (GB) is 1,000,000,000 bytes and a terabyte (TB) is 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2^{10} bytes = 1,073,741,824 bytes and 1TB = 2^{10} = 1,099,511,627,776 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

A mebibyte (MiB) means 2²⁰, or 1,048,576 bytes.

• "2.5-inch" and "3.5-inch" mean the form factor of HDDs. They do not indicate

drive's physical size.

Product image may represent a design model.

 Number of surveillance cameras support capability is defined by performance simulation with High Definition cameras as 2 MiB/s rate.

 A = Advanced Format Sector (4k), E = 512byte Sector Emulated, N = 512byte Sector Native, P = 4Kn Q=512e

Toshiba refers to "storage products" as products that can store data, such as HDD.

• MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF. Read and write speed may vary depending on the host device, read and write conditions and file size.

Enterprise HDDs

	Reliability		
nrecoverable Error Rate	Duty	Rated Workload (TB/year)	Warranty (years)
		(,,,	(jeule)
1 in 1016	24/7	unlimited	5
1 in 1016	24/7	unlimited	5
1 in 1016	24/7	unlimited	5
1 in 1016	24/7	unlimited	5
1 in 10 ¹⁶	24/7	unlimited	5
1 in 1016	24/7	unlimited	5

 Images displayed of the N300, X300, S300 Pro, S300, P300 and L200 Internal Hard Drives as well as of the MG and AL Series are for illustration purposes only and do not show the actual products. The images are merely intended to help illustrate the function of the products.

 SIE = Sanitize Instant Erase, SED = Self Encrypting Drives, FIPS = Federal Information Processing Standard

· Company names, product names, and service names mentioned herein may be trademarks of their respective registrants and/or owners as well.

Technical data

Model					Specification				Perfor	mance			Reliability		
Number	Form- factor	Fill Gas & Recording	Capacity (GB)	Block Size (Byte)	Spindle Speed (RPM)	Buffer Size (MiByte)	Interface	Security Options	Data Rate (sustained) (MB/s)	Operating Power (W) typ.	MTTF (hrs)	Unrecoverable Error Rate	Duty	Rated Workload (TB/year)	Warrant (years)
ENTERPRISE CAPA	CITY HDD W	ITH SAS 12 GE	BIT/S INTERFACE	E – BUSINESS CRIT	ICAL STORAGES WI	TH LARGE CAPACIT	Y								
MG04SCA20EN			2,000		1			SIE	204	11.8					
MG04SCA40EN			4,000	512n	7,200	128	SAS	SIE	204	11.8	1.4 mill.	1 in 1015	24/7	550	5
MG08SDA400N			4,000			256	12 Gbit/s	SIE/SED	233	8.5	2.0 mill.				
MG04SCA20EE			2,000			128		SIE	215	11.8	1.4 mill.				
MG04SCA40EE		Air	4,000					SIE/SED	215	11.8					
MG08SDA400E		CMR	4,000			256		SIE/SED	255	8.5	2.0 mill.				
MG06SCA600E MG08SDA600E			6,000 6,000					SIE SIE/SED	241 251	9.5 9.2	2.5 mill. 2.0 mill.				
MG08SDA800E MG06SCA800E			8,000					SIE/SED	231	10.2	2.5 mill.				
MG08SDA800E			8,000			256		SIE/SED	260	9.9	2.0 mill.				
MG06SCA10TE			10,000	512e	7,200		SAS 12 Gbit/s	SIE/SED	249	11.0		1 in 1015	24/7	550	5
MG07SCA12TE			12,000				12 001(/3	SIE/SED	254	7.8					
MG07SCA14TE		Helium	14,000					SIE/SED	260	8.4					
MG08SCA14TE		CMR	14,000					SIE	260	8.2	2.5 mill.				
MG08SCA16TE MG09SCA16TE			16,000 16,000			512		SIE/SED SIE/SED	275 281	8.2 9.2					
MG09SCA18TE	3.5"	Helium	18,000			512		SIE/SED	281	9.2					
MG10SCA20TE	0.0	MAMR	20,000					SIE/SED	281	9.6					
MG04SCA20EA			2,000			120		SIE	215	11.8	1.4				
MG04SCA40EA			4,000			128		SIE/SED	215	11.8	1.4 mill.				
MG08SDA400A			4,000			256		SIE/SED	255	8.5	2.0 mill.				
MG06SCA600A		Air	6,000					SIE	241	9.5	2.5 mill.				
MG08SDA600A		CMR	6,000 8,000					SIE/SED SIE/SED	251 249	9.2 10.2	2.0 mill. 2.5 mill.				
MG06SCA800A MG08SDA800A			8,000			256		SIE/SED	249	9.9	2.0 mill.				
MG06SCA10TA			10,000	4Kn	7,200	250	SAS	SIE/SED	249	11.0	2.0 mit.	1 in 1015	24/7	550	5
MG07SCA12TA			12,000				12 Gbit/s	SIE/SED	254	7.8			,		
MG07SCA14TA		Helium	14,000					SIE/SED	260	8.4					
MG08SCA14TA		CMR	14,000					SIE	260	8.2	2.5 mill.				
MG08SCA16TA			16,000					SIE/SED	275	8.2	2.5 mill.				
MG09SCA16TA		Helium	16,000			512		SIE/SED	281	9.2					
MG09SCA18TA MG10SCA20TA		MAMR	18,000 20,000					SIE/SED SIE/SED	281 281	9.2 9.6					
ENTERPRISE CAPA		IITH SATA 6 CE							201	5.0					
		IIII JAIA 0 GL	JII/JINIERFACE	L - MAINSTREAM S		OL, IIIF LKJCALL- A									
MG04ACA100N								015							
MCOAACA200N			1,000			120	CATA	SIE	204	11.3	1.4 mill				
MG04ACA200N MG04ACA400N			2,000	512n	7,200	128	SATA 6 Gbit/s	SIE	204	11.3	1.4 mill.	1 in 1015	24/7	550	5
MG04ACA200N MG04ACA400N MG08ADA400N				512n	7,200	128 256	SATA 6 Gbit/s				1.4 mill. 2.0 mill.	1 in 1015	24/7	550	5
MG04ACA400N			2,000 4,000	512n	7,200	256		SIE	204 204	11.3 11.3	2.0 mill.	1 in 1015	24/7	550	5
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E		Air	2,000 4,000 4,000 2,000 4,000	512n	7,200	256 128		SIE SIE SIE/SED SIE SIE	204 204 233 184 194	11.3 11.3 8.1 11.3 11.3	2.0 mill. 1.4 mill.	1 in 10 ¹⁵	24/7	550	5
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E		Air CMR	2,000 4,000 2,000 4,000 4,000 4,000	512n	7,200	256		SIE SIE SIE/SED SIE SIE SIE/SED	204 204 233 184 194 255	11.3 11.3 8.1 11.3 11.3 8.1	2.0 mill. 1.4 mill. 2.0 mill.	1 in 10 ¹⁵	24/7	550	5
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ACA600E			2,000 4,000 2,000 4,000 4,000 4,000 6,000	512n	7,200	256 128		SIE SIE/SED SIE SIE SIE SIE/SED SIE	204 204 233 184 194 255 241	11.3 11.3 8.1 11.3 11.3 8.1 9.0	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill.	1 in 10 ¹⁵	24/7	550	5
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ADA400E MG08ADA600E			2,000 4,000 2,000 4,000 4,000 6,000 6,000	512n	7,200	256 128		SIE SIE/SED SIE SIE SIE/SED SIE/SED	204 204 233 184 194 255 241 251	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill.	1 in 10 ¹⁵	24/7	550	5
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG06ACA600E MG08ADA600E MG06ACA800E			2,000 4,000 2,000 4,000 4,000 6,000 6,000 8,000	512n	7,200	256 128 256	6 Gbit/s	SIE SIE/SED SIE/SED SIE SIE/SED SIE/SED SIE/SED SIE	204 204 233 184 194 255 241 251 251 241	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill.	1 in 10 ¹⁵	24/7	550	5
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ADA400E MG08ADA600E			2,000 4,000 2,000 4,000 4,000 6,000 6,000	512n 512e	7,200	256 128	6 Gbit/s SATA	SIE SIE/SED SIE SIE SIE/SED SIE/SED	204 204 233 184 194 255 241 251	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill.	1 in 10 ¹⁵	24/7	550	
MG04ACA400N MG08ADA400N MG04ACA200E MG08ADA400E MG06ACA600E MG08ADA600E MG08ADA600E MG08ADA800E MG08ACA800E MG06ACA10TE MG07ACA12TE			2,000 4,000 2,000 4,000 4,000 6,000 6,000 6,000 8,000 8,000			256 128 256	6 Gbit/s	SIE SIE/SED SIE/SED SIE SIE/SED SIE/SED SIE SIE/SED	204 204 233 184 194 255 241 251 241 251 241 260	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG08ADA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA800E MG08ACA800E MG08ACA10TE MG07ACA12TE MG07ACA14TE		CMR Helium	2,000 4,000 2,000 4,000 6,000 6,000 6,000 8,000 8,000 10,000 12,000 14,000			256 128 256	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 260 249 254 260	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG08ADA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA800E MG08ACA10TE MG07ACA12TE MG07ACA14TE		CMR	2,000 4,000 2,000 4,000 6,000 6,000 6,000 8,000 8,000 10,000 12,000 14,000 14,000			256 128 256	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 251 260 249 254 254 260 260	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ACA600E MG08ACA600E MG08ACA800E MG08ACA800E MG08ACA10TE MG07ACA12TE MG07ACA14TE MG08ACA14TE		CMR Helium	2,000 4,000 2,000 4,000 6,000 6,000 8,000 8,000 10,000 12,000 14,000 14,000 16,000			256 128 256 256	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 251 241 260 249 254 254 260 250 260 260 275	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.0 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG08ADA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA600E MG08ADA800E MG08ACA10TE MG07ACA14TE MG08ACA14TE MG08ACA14TE MG08ACA16TE		CMR Helium CMR Helium	2,000 4,000 2,000 4,000 6,000 6,000 8,000 8,000 10,000 12,000 14,000 14,000 16,000			256 128 256	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 251 241 260 249 254 254 260 260 275 281	11.3 11.3 8.1 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.0 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA600E MG08ADA800E MG08ACA10TE MG07ACA14TE MG08ACA14TE MG08ACA14TE MG08ACA16TE MG09ACA16TE	3.5"	CMR Helium CMR	2,000 4,000 2,000 4,000 6,000 6,000 8,000 8,000 10,000 12,000 14,000 14,000 16,000 16,000 18,000			256 128 256 256	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 260 249 254 260 254 260 254 260 275 281 281	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3 8.3	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.0 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG08ADA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA600E MG08ADA800E MG08ACA10TE MG07ACA14TE MG08ACA14TE MG08ACA14TE MG08ACA16TE	3.5"	CMR Helium CMR Helium	2,000 4,000 2,000 4,000 6,000 6,000 8,000 8,000 10,000 12,000 14,000 14,000 16,000			256 128 256 256 512	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 251 241 260 249 254 254 260 260 275 281	11.3 11.3 8.1 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA600E MG08ACA10TE MG07ACA12TE MG07ACA14TE MG08ACA14TE MG08ACA14TE MG08ACA16TE MG09ACA16TE MG09ACA18TE	3.5"	CMR Helium CMR Helium	2,000 4,000 2,000 4,000 6,000 6,000 8,000 8,000 12,000 12,000 14,000 16,000 16,000 18,000 20,000			256 128 256 256	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 260 249 254 260 260 260 275 281 281 281	11.3 11.3 8.1 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3 8.3 9.3	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.0 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ACA600E MG08ACA800E MG08ACA800E MG08ACA10TE MG07ACA12TE MG07ACA14TE MG08ACA14TE MG08ACA14TE MG08ACA16TE MG09ACA18TE MG09ACA18TE MG09ACA18TE MG04ACA200A	3.5"	CMR Helium CMR Helium MAMR	2,000 4,000 2,000 4,000 6,000 6,000 8,000 10,000 12,000 14,000 16,000 16,000 16,000 18,000 20,000 2,000 4,000			256 128 256 256 512	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 260 249 254 260 260 260 275 281 281 281 281 184 194 255	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3 8.3 9.3 11.3 11.3 11.3 8.1	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.5 mill. 1.4 mill. 2.0 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ACA600E MG08ACA800E MG08ACA800E MG08ACA10TE MG07ACA12TE MG07ACA14TE MG08ACA14TE MG08ACA14TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE	3.5"	CMR Helium CMR Helium MAMR	2,000 4,000 2,000 4,000 6,000 6,000 8,000 10,000 12,000 14,000 14,000 16,000 16,000 18,000 20,000 2,000 4,000 4,000 6,000			256 128 256 256 512 128	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE SIE	204 204 233 184 194 255 241 251 241 260 249 254 260 260 260 275 281 281 281 281 281 184 194 255 241	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3 9.3 11.3 11.3 11.3 8.1 9.0	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.5 mill. 2.0 mill. 2.5 mill. 1.4 mill. 2.0 mill. 2.5 mill.				
MG04ACA400N MG08ADA400N MG04ACA200E MG04ACA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA800E MG08ACA800E MG08ACA800E MG08ACA10TE MG07ACA12TE MG07ACA14TE MG08ACA14TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE	3.5"	CMR Helium CMR Helium MAMR	2,000 4,000 2,000 4,000 6,000 6,000 6,000 8,000 10,000 12,000 14,000 16,000 16,000 16,000 2,000 2,000 4,000 6,000 6,000			256 128 256 256 512 128	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE SIE/SED SIE SIE/SED	204 204 233 184 194 255 241 251 241 260 249 254 260 260 260 275 281 281 281 281 281 184 194 255 241 255 241	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3 8.3 9.3 11.3 11.3 11.3 8.1 9.0 8.7	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill.				5
MG04ACA400N MG08ADA400N MG08ADA400E MG08ADA400E MG08ADA400E MG08ADA600E MG08ADA600E MG08ADA600E MG08ACA800E MG08ACA10TE MG07ACA12TE MG07ACA14TE MG08ACA10TE MG08ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE MG09ACA16TE	3.5"	CMR Helium CMR Helium MAMR	2,000 4,000 2,000 4,000 6,000 6,000 8,000 10,000 12,000 14,000 16,000 16,000 16,000 20,000 2,000 4,000 4,000 6,000 6,000 8,000			256 128 256 256 512 128 256	6 Gbit/s SATA	SIE SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED SIE/SED	204 204 233 184 194 255 241 251 241 260 249 254 260 260 260 275 281 281 281 281 281 184 194 255 241 255 241	11.3 11.3 8.1 11.3 11.3 8.1 9.0 8.7 9.8 9.5 10.6 7.8 8.0 7.7 7.7 8.3 8.3 9.3 11.3 11.3 11.3 8.1 9.0 8.7 9.8	2.0 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill. 1.4 mill. 2.0 mill. 2.5 mill. 2.0 mill. 2.5 mill.				
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Enterprise HDDs

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