

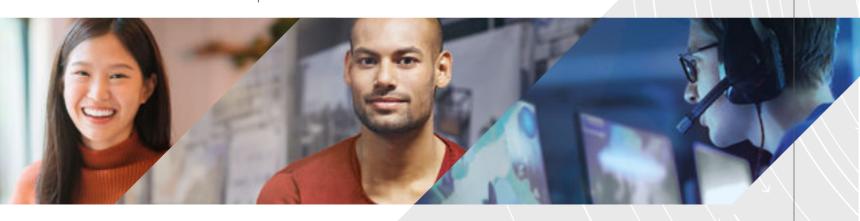
Toshiba Storage Solutions

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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.



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.



Watch vide

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 meet their requirements.

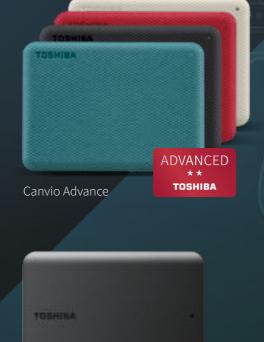






Canvio Ready

STANDARD



Canvio Basics

STANDARD



Specialty



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.

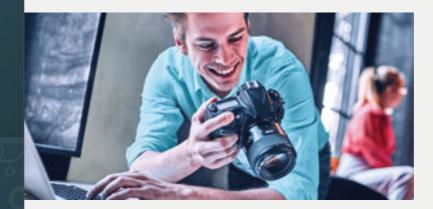
Premium



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.





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.

Standard



Save your special memories on a special 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.



Canvio Flex

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





One Drive. Many Devices.

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.

- 2.5" 2.5" External Hard Drive
- Elegant silver finish
- SuperSpeed USB 3.2 Gen 1 port
- USB-powered
- Includes USB Type-C® and USB Type-A cables
- Compatible with Mac / Windows PC / Tablet
- 3-year warranty



Colour

Capacities

TB TB TB

Store up to 25+ games per TB**

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.



2.5" 2.5" External Hard Drive

Sleek black finish

SuperSpeed USB 3.2 Gen 1 port

USB-powered

Works with PlayStation / Xbox / PC





Capacities

TB TB TB

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.



- Aluminium finish
- SuperSpeed USB 3.2 Gen 1 port
- USB-powered
- Auto-backup software
- Password protection software
- (3) 3-year warranty





Capacities

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





USB-powered

- Auto-backup software
- Password protection software



TOSHIBA







TB

TB





** Average game size: 36 GB

* Please check device compatibility

External HDDs External HDDs

Canvio Basics

Storage Made Simple.





Your compact companion.

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.

2.5" 2.5" External Hard Drive



SuperSpeed USB 3.2 Gen 1 port



⇒ Plug-and-play operation



Colour

Capacities

тв тв тв

2.5" 2.5" External Hard Drive

Two-tone matte and gloss finish

USB-powered

Drag-and-drop use

Canvio Ready

Ready to Store. Simple to Use.





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.



SuperSpeed USB 3.2 Gen 1 port





Capacities

4 2 1 TB TB TB

Technical data

Model	Category	Casing	Part Number	Capacity	Interface	USB Con- nector Type	PC	Mac	Other Compatibility	Backup Software	Passwor Protection
Canvio Flex 🏶											
			HDTX140ESCCA	4 TB							
	SPECIALTY TOSHIBA	Elegant silver finish	HDTX120ESCAA	2 TB	USB 3.2 Gen 1	Type-C [®] & Type-A	✓	✓		-	-
			HDTX110ESCAA	1 TB					iOS / Android™ devices²		
Canvio Gaming	}										
			HDTX140EK3CA	4 TB							
-	SPECIALTY TOSHIBA	Sleek black finish	HDTX120EK3AA	2 TB	USB 3.2 Gen 1	Type-A	✓	✓		-	-
			HDTX110EK3AA	1 TB					PlayStation / Xbox ²		
Canvio Slim ★★	*										
			HDTD320EK3EA	2 TB		Туре-А					
	PREMIUM	Aluminium finish	HDTD310EK3DA	1 TB	USB 3.2			√ 1	-	~	
	PREMIUM *** TOSHIBA		HDTD320ES3EA	2 TB	Gen 1		✓				•
			HDTD310ES3DA	1TB							
Canvio Advance	**										
			HDTCA40EK3CA	4 TB							
		Textured finish	HDTCA20EK3AA	2 TB							
		11111511	HDTCA10EK3AA	1 TB							
			HDTCA40ER3CA	4 TB							
		Textured	HDTCA20ER3AA	2 TB							
	ADVANCED	finish	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	HDTCA10EG3AA	1 TB							
Canvio Basics ★											
- Duoico A			HDTB540EK3CA	4 TB							
	STANDARD * TOSHIBA	Matt			IICD 2 2 Con 1	Tuno A	.,	√ 1			
	TOSHIBA	Matt	HDTB520EK3AA 2 TB US HDTB510EK3AA 1 TB		USB 3.2 Gen 1	Type-A	✓	V 1	_	-	-
Canvia Bandu +			HDIBSTUENSAA	IID							
Canvio Ready ★			LIDTD2 4251/201	4.70							
	STANDARD	Two-toned	HDTP340EK3CA	4 TB		_		√ 1			-
	STANDARD ** TOSHIBA	matte and gloss finish	HDTP320EK3AA	2 TB	USB 3.2 Gen 1	Type-A	✓		-	-	
		g1033 1111311	HDTP310EK3AA	1 TB							



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. $Microsoft, Windows and Xbox\ are\ trademarks\ of\ the\ Microsoft\ group\ of\ companies.\ {\tt "PlayStation"}\ is\ a\ registered\ trademark\ or\ a\ trademark\ of\ Sony\ Interactive$ 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, formatting, 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.

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.



Micro-B USB 3.2 Gen 1

HDD interface connector



Hard Drives

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

Controller

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



Software

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 user-friendly 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.

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.

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 power-efficient 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.

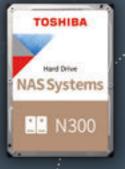
Industry-leading 10 disk platter design

The Toshiba 20 & 22 TB HDD feature 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.



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.







Surveillance

TOSHIBA

PC

P300

■ L200



Everything is possible – with the right drive.





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.



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.







Performance Hard Drives

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.



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.



Enterprise Hard Drives

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.



Internal HDDs Internal HDDs

N300

Built for 24/7 reliability





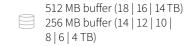


Toshiba's N300

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 highcapacity storage for personal, home office, and small business use.

SATA 3.5" SATA Hard Drive

RPM 7,200 rpm



Toshiba Stable Platter Technology

High reliability and enhanced real-time performance

High-endurance design

3 -year warranty

Capacities

18	16	14	12	10
тв	TB	тв	тв	тв
8 тв	6 тв	4 тв		

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

Toshiba Dynamic Cache Technology

Capacities

18	16	14	12	10
тв	TB	TB	TB	TB
8 тв	6 TB	4 TB		

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.

SATA 3.5" SATA Hard Drive

RPM 7,200 rpm

256 MB buffer

Up to 64 cameras

24/7 24/7 operation

(3) 3-year warranty

Capacities

10	8	6
TB	TB	TB

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

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)

Up to 64 cameras

24/7 24/7 operation

3 3-year warranty

Capacities

6	4	2	1
TB	TB	TB	ТВ

Use for:

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

Internal HDDs

P300

Performance meets reliability





View more

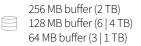


Toshiba's P300

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

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



Capacities

6 4 3 2 1 TB TB TB TB TB

Use for:

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

L200

Take your laptop to the next level





View more



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 TB TB GB

Use for:

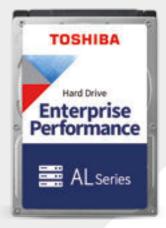
- Notebooks
- Game consoles
- External enclosures

Technical data

Model	Retail Number	Bulk Number	Capacity	Interface	RPM	Cache	Height	Recording Technology	RAID	24/7 Operation	Warranty (years)
N300 NAS Hard	Drive 3.5"										
	-	HDWG51JUZSVA	18 TB			512 MB					
	-	HDWG31GUZSVA	16 TB			512 MB					
	HDWG51EEZSTA	-	14 TB			512 MB					
W	-	HDWG21EUZSVA	14 TB			256 MB					
NACQUESTION.	HDWG21CEZSTA	HDWG21CUZSVA	12 TB	SATA 6 Gbit/s	7,200	256 MB	26.1 mm	CMR	✓	✓	3
MI 96300	HDWG11AEZSTA	HDWG11AUZSVA	10 TB	ODIGS		256 MB					
	HDWG480EZSTA	HDWG480UZSVA	8 TB			256 MB					
	HDWG460EZSTA	HDWG460UZSVA	6 TB			256 MB					
	HDWG440EZSTA	HDWG440UZSVA	4 TB			256 MB					
X300 Performa	nce Hard Drive 3.5"										
	-	HDWR51JUZSVA	18 TB			512 MB					
	-	HDWR31GUZSVA	16 TB			512 MB	26.1 mm				
700400	HDWR51EEZSTA	HDWR51EUZSVA	14 TB	SATA 6		512 MB			-		
	HDWR21CEZSTA	HDWR21CUZSVA	12 TB		7 200	256 MB		CMB			2
0.000	HDWR11AEZSTA	HDWR11AUZSVA	10 TB	Gbit/s	7,200	256 MB		CMR		_	2
	HDWR480EZSTA	HDWR480UZSVA	8 TB			256 MB					
	HDWR460EZSTA	HDWR460UZSVA	6 TB			256 MB					
	HDWR440EZSTA	HDWR440UZSVA	4 TB			256 MB					
S300 Pro Surve	eillance Hard Drive 3	.5"									
Terreto	-	HDWT31AUZSVA	10 TB			256 MB					
W		LIDIAITAGOLIZCUA	0.70	SATA 6	7.000	256 MB	26.1 mm	CMB	,	,	2
O CONTRACT	-	HDWT380UZSVA	8 TB	Gbit/s	7,200	256 MB		CMR	✓	✓	3
	-	HDWT360UZSVA	6 TB			256 MB					
S300 Surveilla	nce Hard Drive 3.5"										
	-	HDWT860UZSVA	6 TB		5,400	256 MB					
TORNISA	-	HDWT840UZSVA	4 TB		5,400	256 MB		SMR	-		
Sarvelliance	-	HDWT140UZSVA	4 TB	SATA 6 Gbit/s	5,400	128 MB	26.1 mm	CMR	✓	✓	3
© 5380	-	HDWT720UZSVA	2 TB	GDIL/S	5,400	128 MB		SMR			
	-	HDWV110UZSVA	1 TB		5,700	64 MB		CMR	-		
P300 Desktop F	PC Hard Drive 3.5"										
	HDWD260EZSTA	HDWD260UZSVA	6TB		5,400	128 MB					
Total	HDWD240EZSTA	HDWD240UZSVA	4TB		5,400	128 MB		SMR			
Building FC	-	HDWD130UZSVA	3TB	SATA 6 Gbit/s	7,200	64 MB	26.1 mm	CMR	-	-	2
P300	HDWD320EZSTA	HDWD320UZSVA	2TB	GDIL/S	7,200	256 MB		0110			
	HDWD110EZSTA	HDWD110UZSVA	1TB		7,200	64 MB		SMR			
L200 Laptop PO	C Hard Drive 2.5"										
	-	HDWL120UZSVA	2 TB	SATA 6		128 MB	9.5 mm				
Name and Address of the Address of t	-	HDWL110UZSVA	1 TB	Gbit/s		128 MB	7.0 mm	SMR			
Latin IX	-	HDWJ110UZSVA	1 TB	SATA 3	5,400	8 MB	9.5 mm			2	
■ 1200	-	HDWJ105UZSVA	500 GB	Gbit/s	5,400	8 MB	9.5 mm	CMR			2
	_	HDWK105UZSVA	500 GB	SATA 6		8 MB	7.0 mm	3			
				Gbit/s							

AL Series

Enterprise Performance HDD







View more

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 operation

Unlimited workload (TB/year)

MTTF MTTF of 2 mill. hours

Persistent Write Cache Technology

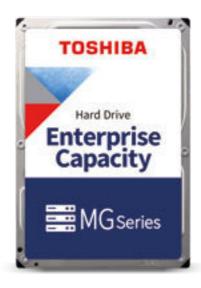
 $\frac{512n}{4k}$ Flexibility in block size and SIE and SED options

(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	МВ				
MTTF	2.0 mil	l. hrs.				

MG Series

Enterprise Capacity HDD







....

Use for:

- Business Critical Enterprise Server and Storage Systems
- Enterprise Storage Arrays
- Cloud and Hyperscale Storage Systems
- Big Data, Distributed File Systems
- Enterprise Archive and Data Recovery Systems
- Industrial Server- and Storage Systems

Toshiba's MG Series

Toshiba's Enterprise Capacity Hard Drive – MG Series offers formatted capacities as high as 22 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 or SAS Hard Drive

24/7 operation

Toshiba Stable Platter Technology

Persistent Write Cache Technology

550 TB/year workload

 $\frac{512n}{4k}$ Flexibility in block size and SIE and SED options

5 5-year warranty

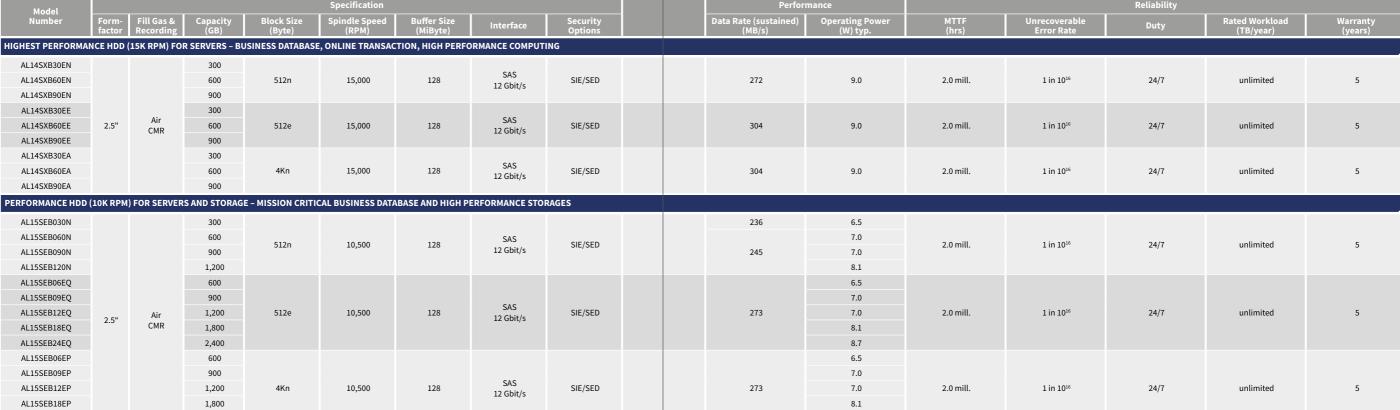
MG Series	١	MG04	MG06	MG07	М	G08		MG09	MG10				
Capacity (TB)	1 2		10	12 14	4 6		16	18	20 22				
I/F speed	-	- SAS 12 Gbit/s											
				SATA	A 6 Gbit/s								
RPM					7,200								
Cache	1	28 MB		256	512 MB								
Sector length	512n	512e, 512n, 4Kn	5126	e, 4Kn	512e, 512n, 4Kn	512e,		łKn	5126				
MTTF	1.4	mill. Hrs.	2.5 m	ill. Hrs.	2 mill. I	2.5 mill. Hrs.							
Sealed		Air		Helium	Air		Helium						

^{*} Changeable to 4Kn by field-reformatting



Enterprise HDDs

Technical data





AL Series

Enterprise Performance HDD

AL15SEB24EP

2,400

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 $1GB = 2^m$ bytes = 1,073,741,824 bytes and $1TB = 2^m = 1,099,511,627,776$ 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.
- \cdot "2.5-inch" and "3.5-inch" mean the form factor of HDDs. They do not indicate drive's physical size.
- $\label{product} \hbox{Product image may represent a design model}.$
- 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.
- 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.
- ${\it SIE} = {\it Sanitize} \ {\it Instant} \ {\it Erase}, \ {\it SED} = {\it Self} \ {\it Encrypting} \ {\it Drives}, \ {\it FIPS} = {\it Federal} \ {\it Information} \ {\it Processing} \ {\it Standard}$ ${\it Standard}$
- Company names, product names, and service names mentioned herein may be trademarks of their respective registrants and/or owners as well.

Enterprise HDDs Enterprise HDDs

Technical data

Model		Specification							Perform	nance	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)	Warranty (years)	
ENTERPRISE CAPAC	ITY HDD WI	TH SAS 12 GB	IT/S INTERFACE	E – BUSINESS CRIT	TICAL STORAGES WI	TH LARGE CAPACIT	Υ									
MG04SCA20EN			2,000	512n	7,200	128	SAS	SIE	204	11.8	1.4 mill.	1 in 10 ¹⁵	24/7	550	5	
MG08SDA400N			4,000	51211	1,200	256	12 Gbit/s	SIE/SED	233	8.5	2.0 mill.	1 111 10	24/1	550	5	
MG04SCA20EE		A:	2,000			128		SIE	215	11.8	1.4 mill.			550		
MG08SDA400E		Air CMR	4,000			256		SIE/SED	255	8.5	2.0 mill.		24/7			
MG08SDA600E		CMIK	6,000					SIE/SED	251	9.2	2.0 mill.					
MG08SDA800E			8,000					SIE/SED	260	9.9	2.0 mill.					
MG06SCA10TE			10,000			256	CAC	SIE/SED	249	11.0						
MG07SCA12TE		11-15	12,000	512e	7,200		SAS 12 Gbit/s	SIE/SED	254	7.8		1 in 10 ¹⁵			5	
MG07SCA14TE		Helium CMR	14,000				12 001(/3	SIE/SED	260	8.4						
MG08SCA16TE		CMIX	16,000					SIE/SED	275	8.2	2.5 mill.					
MG09SCA18TE		Helium	18,000			512		SIE/SED	281	9.2						
MG10SCA20TE	3.5"	MAMR	20,000			312		SIE/SED	281	9.6						
MG10SFA22TE		MANIX	22,000					SIE/SED	284	10.2						
MG04SCA20EA			2,000			128		SIE	215	11.8	1.4 mill.					
MG08SDA400A		A:	4,000			256		SIE/SED	255	8.5	2.0 mill.					
MG08SDA600A		Air CMR	6,000					SIE/SED	251	9.2	2.0 mill.					
MG08SDA800A		Cinit	8,000					SIE/SED	260	9.9	2.0 mill.					
MG06SCA10TA			10,000	4Kn	7,200	256	SAS	SIE/SED	249	11.0		1 in 10 ¹⁵	24/7	550	E	
MG07SCA12TA		Halium	12,000	4NII	1,200		12 Gbit/s	SIE/SED	254	7.8		1 111 10	24/1	330	3	
MG07SCA14TA		Helium CMR	14,000					SIE/SED	260	8.4	2.5 mill.					
MG08SCA16TA		CMIK	16,000					SIE/SED	275	8.2	2.5 111111.					
MG09SCA18TA		Helium	18,000			512		SIE/SED	281	9.2						
MG10SCA20TA		MAMR	20,000					SIE/SED	281	9.6						
NTERPRISE CAPAC	ITY HDD W	TH SATA 6 GB	IT/S INTERFACE	E – MAINSTREAM S	SERVER AND STORAG	GE, HYPERSCALE- A	ND CLOUD STORAG	iΕ								
MG04ACA100N			1,000			120	6474	SIE	204	11.3	1.4					
MG04ACA200N			2,000	512n	7,200	128	SATA	SIE	204	11.3	1.4 mill.	1 in 10 ¹⁵	24/7	550	5	
MCOOADAAOON			4.000			256	6 Gbit/s	CIE/CED	222	0.1	2.0!!!					



MG Series

Enterprise Capacity HDD

MIGOOSCATOTA			10,000	4Kn	7 200	236	SAS	SIE/SED	243	11.0		1 in 10 ¹⁵	24/7	FF0	_
MG07SCA12TA			12,000	4NII	7,200		12 Gbit/s	SIE/SED	254	7.8		1 111 10	24/7	550	3
MG07SCA14TA		Helium CMR	14,000					SIE/SED	260	8.4	2.5!!!				
MG08SCA16TA		CWIK	16,000					SIE/SED	275	8.2	2.5 mill.				
MG09SCA18TA		Helium	18,000			512		SIE/SED	281	9.2					
MG10SCA20TA		MAMR	20,000					SIE/SED	281	9.6					
ENTERPRISE CAPACIT	TY HDD WI	TH SATA 6 GB	IT/S INTERFACE	E – MAINSTREAM S	ERVER AND STORA	GE, HYPERSCALE-	AND CLOUD STORAG	GE .							
MG04ACA100N			1,000					SIE	204	11.3					
MG04ACA200N			2,000	512n	7,200	128	SATA	SIE	204	11.3	1.4 mill.	1 in 10 ¹⁵	24/7	550	5
MG08ADA400N			4,000		ŕ	256	6 Gbit/s	SIE/SED	233	8.1	2.0 mill.				
MG04ACA200E		Air	2,000			128		SIE	184	11.3	1.4 mill.				
MG08ADA400E		CMR	4,000			256		SIE/SED	255	8.1	2.0 mill.				5
MG08ADA600E			6,000					SIE/SED	251	8.7	2.0 mill.			550	
MG08ADA800E			8,000					SIE/SED	260	9.5	2.0 mill.				
MG06ACA10TE			10,000			256		SIE/SED	249	10.6					
MG07ACA12TE			12,000	512e	7,200		SATA	SIE/SED	254	7.8		1 in 10 ¹⁵	24/7		
MG07ACA14TE		Helium CMR	14,000				6 Gbit/s	SIE/SED	260	8.0	2.5 mill.				
MG08ACA16TE		CMR	16,000					SIE/SED	275	7.7					
MG09ACA18TE	3.5"		18,000			F12		SIE/SED	281	8.3					
MG10ACA20TE		Helium MAMR	20,000			512		SIE/SED	281	9.3					
MG10AFA22TE		MAMIX	22,000					SIE/SED	284	9.8					
MG04ACA200A			2,000			128		SIE	184	11.3	1.4 mill.				
MG08ADA400A		A !	4,000			256		SIE/SED	255	8.1	2.0 mill.				
MG08ADA600A		Air CMR	6,000					SIE/SED	251	8.7	2.0 mill.				
MG08ADA800A		CWIK	8,000					SIE/SED	260	9.5	2.0 mill.				
MG06ACA10TA			10,000	4Kn	7,200	256	SATA	SIE	249	10.6		1 in 10 ¹⁵	24/7	550	5
MG07ACA12TA		O allana	12,000	4KII	1,200		6 Gbit/s	SIE	254	7.8		1 111 10	24/1	550	3
MG07ACA14TA		Helium CMR	14,000					SIE	260	8.0	2.5 mill.				
MG08ACA16TA		Cilit	16,000					SIE/SED	275	7.7	Z.J IIIIII.				
MG09ACA18TA		Helium	18,000			512		SIE/SED	281	8.3					
MG10ACA20TA		MAMR	20,000					SIE/SED	281	9.3					

TOSHIBA



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