

HDD

> **DT01ABAxVxV SERIES**
VIDEO STREAM HDD



> **KEY FEATURES**

- Up to 3 TB of Storage Capacity
- 3.5-inch, Low Profile Form Factor
- 5,900 rpm
- SATA up to 6.0 Gbit/s
- Advanced Format (AF) 512e Sector Length
- Low Power Consumption Versus Higher rpm Models (DT01ACA series)
- 24 dB (Idle)

> **APPLICATIONS**

- Video Editing Systems
- Set-Top-Box (STB)
- Digital Video Recorders (DVR)
- Network Video Recorders (NVR)

> **MAIN SPECIFICATIONS**

Model Number		DT01ABA300V	DT01ABA200V	DT01ABA100V	DT01ABA050V
Interface		Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)			
Formatted Capacity		3 TB	2 TB	1 TB	500 GB
Performance	Interface Speed	6.0 Gbit/s Max.			
	Rotation Speed	5,940 rpm	5,700 rpm		
	Average Latency Time	5.06 ms	5.27 ms		
	Buffer Size	32 MiB			
Logical Data Block Length	DT01ABAxVxV	HOST: 512 B, DISK: 4,096 B			
Supply Voltage	Allowable Voltage	5 V ± 5% 12 V ± 10 %			
Power Consumption	Read / Write	5.4 W Typ.	4.7 W Typ.	5.7 W Typ.	
	Low Power Idle	4.2 W Typ.	3.3 W Typ.	3.0 W Typ.	
Acoustics (Sound Power)	Idle	24 dB	22 dB	19 dB	
	Seek	25 dB	24 dB	22 dB	

> **RELIABILITY**

Model Number	DT01ABAxVxV
Non-recoverable Error Rate	1 error per 10 ¹⁴ bits read

> MECHANICAL SPECIFICATIONS

Model Number	DT01ABA300V	DT01ABA200V	DT01ABA100V	DT01ABA050V
Height	26.1 mm Max..			
Width	101.6 mm			
Length	147 mm Max.			
Weight	680 g Max.		450 g Max.	

> ENVIRONMENTAL LIMITS

Item		Specification	
Temperature	Operating	0 °C to 60 °C	
	Non-Operating	- 40 °C to 70 °C	
Humidity	Operating	8 % to 90 % R.H. (No condensation)	
	Non-Operating	5 % to 95 % R.H. (No condensation)	
Shock	Operating	686 m/s ² {70 G} (2 ms half sine wave)	
	Non-Operating	2,940 m/s ² {300 G} (2 ms half sine wave)	3,430 m/s ² { 350 G } (2 ms half sine wave)
Vibration	Operating	6.57 m/s ² { 0.67 G } (5 to 500 Hz)	
	Non-Operating	10.2 m/s ² { 1.04 G } (2 to 200 Hz)	
Altitude	Operating	- 300 m to +3,048 m	
	Non-Operating	- 300 m to +12,000 m	

> ENVIRONMENTAL FEATURE

Model Number	DT01ABAxV
RoHS	Compatible

Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 1,073,741,824 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, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

A kibibyte (KiB) means 2¹⁰, or 1,024 bytes, a mebibyte (MiB) means 2²⁰, or 1,048,576 bytes, and a gibibyte (GiB) means 2³⁰, or 1,073,741,824 bytes.

Toshiba Semiconductor & Storage Products Company defines "RoHS-Compatible" products as products that either (i) contain no more than a maximum concentration value of 0.1% by weight in Homogeneous Materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) and of 0.01% by weight in Homogeneous Materials for cadmium; or (ii) fall within any of the application exemptions set forth in the Annex to the RoHS Directive (Directive 2011/65/EC of the European Parliament and of the Council of 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment). "Homogeneous Material" means a material of uniform composition that cannot be mechanically disjointed (meaning separated, in principle, by mechanical actions such as unscrewing, cutting, crushing, grinding and/or abrasive processes) into different materials. Examples of "Homogeneous Materials" would be individual types of plastics, ceramics, glass, metals, alloys, paper, board, resins and coatings.

Read and write speed may vary depending on the host device, read and write conditions, and file size.

"2.5-inch" and "3.5-inch" mean the form factor of HDDs or SSDs. They do not indicate drive's physical size.

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