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## Overview

DT01ABA100V, Toshiba DT01ABAxxxV Series video stream HDD. 1 TB, Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)

### Quick Specs

Table 1 shows the Quick Specs.

<b>Product Code</b>	<b>DT01ABA100V</b>	
<b>Interface</b>	Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)	
<b>Formatted Capacity</b>	1 TB	
<b>Performance</b>	<b>Interface Speed</b>	6.0 Gbit/s Max.
	<b>Rotation Speed</b>	5,700 rpm
	<b>Average Latency Time</b>	5.27 ms
	<b>Buffer Size</b>	32 MiB

### Product Details

The Toshiba DT01ABAxxxV Series provides these highlights:

#### 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)

### Compare to Similar Items

Table 2 shows the comparison.

Parameters	DT01ABA100V	DT01ABA200V	DT01ABA300V
<b>Interface</b>	Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)	Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)	Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)
<b>Formatted Capacity</b>	1 TB	2 TB	3 TB
<b>Performance</b>	<b>Interface Speed</b>	6.0 Gbit/s Max.	6.0 Gbit/s Max.
	<b>Rotation Speed</b>	5,700 rpm	5,940 rpm

	<b>Average Latency Time</b>	5.27 ms	5.27 ms	5.06 ms
	<b>Buffer Size</b>	32 MiB	32 MiB	32 MiB
<b>Power Consumption</b>	<b>Read / Write</b>	5.7 W Typ.	4.7 W Typ.	5.4 W Typ.
	<b>Low Power Idle</b>	3.0 W Typ.	3.3 W Typ.	4.2 W Typ.
<b>Acoustics (Sound Power)</b>	<b>Idle</b>	19 dB	22 dB	24 dB
	<b>Seek</b>	22 dB	24 dB	25 dB
<b>Shock</b>	<b>Operating</b>	686 m/s <sup>2</sup> {70 G} (2 ms half sine wave)	686 m/s <sup>2</sup> {70 G} (2 ms half sine wave)	686 m/s <sup>2</sup> {70 G} (2 ms half sine wave)
	<b>Non-Operating</b>	3,430 m/s <sup>2</sup> { 350 G } (2 ms half sine wave)	3,430 m/s <sup>2</sup> { 350 G } (2 ms half sine wave)	2,940 m/s <sup>2</sup> {300 G} (2 ms half sine wave )

## Get More Information

Do you have any question about the DT01ABA100V?

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## Specification

DT01ABA100V Specification		
<b>Interface</b>		Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)
<b>Formatted Capacity</b>		1 TB
<b>Performance</b>	<b>Interface Speed</b>	6.0 Gbit/s Max.
	<b>Rotation Speed</b>	5,700 rpm
	<b>Average Latency Time</b>	5.27 ms
	<b>Buffer Size</b>	32 MiB
<b>Logical Data Block Length</b>	<b>DT01ABAxxxV</b>	HOST: 512 B, DISK: 4,096 B
<b>Supply Voltage</b>	<b>Allowable Voltage</b>	5 V ± 5% 12 V ± 10 %
<b>Power Consumption</b>	<b>Read / Write</b>	5.7 W Typ.
	<b>Low Power Idle</b>	3.0 W Typ.
<b>Acoustics (Sound Power)</b>	<b>Idle</b>	19 dB
	<b>Seek</b>	22 dB
<b>Non-recoverable Error Rate</b>		1 error per 10 <sup>14</sup> bits read
<b>Height</b>		26.1 mm Max.
<b>Width</b>		101.6 mm
<b>Length</b>		147 mm Max.
<b>Temperature</b>	<b>Operating</b>	0 °C to 60 °C
	<b>Non-Operating</b>	- 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 <sup>2</sup> { 70 G } (2 ms half sine wave)
	Non-Operating	3,430 m/s <sup>2</sup> { 350 G } (2 ms half sine wave)
Vibration	Operating	6.57 m/s <sup>2</sup> { 0.67 G } ( 5 to 500 Hz )
	Non-Operating	10.2 m/s <sup>2</sup> { 1.04 G } ( 2 to 200 Hz )
Altitude	Operating	- 300 m to +3,048 m
	Non-Operating	- 300 m to +12,000 m
RoHS		Compatible

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