

**Internal Hard Drives**

# X300 Performance Hard Drive

Level up your drive performance



14 12 10 8 6 5 4  
TB TB TB TB TB TB TB

Color

Toshiba's X300 3.5" 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 256 MB or 128 MB buffer. It even features improved positional accuracy for stable recording. The X300 is available in capacities of up to 14 TB - ideal for PC gamers, graphic designers, and other users with demanding storage requirements.

Use for:

- Powerful desktop workstations
- All-in-one PCs
- Gaming computers
- High performance PCs
- Home media computers



- SATA** 3.5" SATA Hard Drive
- RPM** 7200 rpm
-  128/256 MB buffer
- Toshiba Dynamic Cache Technology
- Toshiba Stable Platter Technology

## Manual

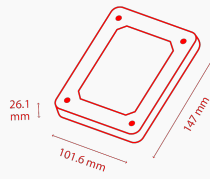
[Toshiba Installation and Safety.pdf](#) 

## Tools

[TOSHIBA Storage Diagnostic Tool.zip](#) 



# Product Specifications



## Basic Specifications

<b>Form factor</b>	3.5-inch
<b>Interface</b>	SATA 6.0 Gbit/s
<b>Advanced Format (AF)</b>	Yes
<b>RoHS compatible</b>	Yes
<b>Halogen Free</b>	Yes
<b>Shock Sensor</b>	Yes

## Performance

<b>Rotational speed</b>	7,200 rpm
<b>Buffer size</b>	256 MB (10 TB - 14 TB), 128 MB (4 TB - 8 TB)
<b>Average latency</b>	4.17 ms
<b>Native Command Queing (NCQ)</b>	Supported

## Reliability

<b>MTTF</b>	600,000 hours
<b>Unrecoverable error rate</b>	1 per 10E14 bits read

## Power Management

<b>Supply voltage</b>	5VDC ( $\pm 5\%$ ) / 12VDC ( $\pm 5\%$ )
<b>Consumption (operating)</b>	6.77 W typ. (12 TB, 14 TB), 9.92 W typ. (10 TB), 9.2 W typ. (8 TB), 11.3 W typ. (4 TB - 6 TB)
<b>Consumption - Active Idle</b>	4.54 W typ. (12 TB, 14 TB), 7.22 W typ. (10 TB), 6.2 W typ. (8 TB), 7.5 W typ. (4 TB - 6 TB)

## Environmental

<b>Temperature (operating / non-operating)</b>	5 to 60° C / -40 to 70 °C
<b>Vibration (operating)</b>	0.75 G (5 to 300 Hz) 0.25 G (300 to 500 Hz)
<b>Vibration (non-operating)</b>	3.0 G (5 to 500Hz) (10 TB - 14 TB), 5.0 G (5 to 500Hz) or less (4 TB - 8 TB)
<b>Shock (operating)</b>	70 G / 2 ms duration
<b>Shock (non-operating)</b>	250 G / 2 ms duration (8 TB - 14 TB), 300 G / 2 ms duration (4 TB - 6 TB)
<b>Acoustics (idle mode)</b>	20 dB Typ. (12 TB, 14 TB), 34 dB typ. (6 TB, 10 TB), 33 dB typ. (8 TB), 31 dB typ. (4 TB, 5 TB)

## Physical

<b>Dimensions</b>	147 (L) x 101.6 (W) x 26.1 (H) mm
<b>Weight (approx.)</b>	770 g max. (6 TB - 10 TB), 720 g max. (4 TB, 5 TB, 12 TB, 14 TB)

## Box Content

<b>Box Content</b>	3.5-inch internal HDD - X300 Performance Hard Drive
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# Product Range

Part number	Capacity	Color
HDWR21EEZSTA (Retail)	14 TB	-
HDWR21EUZSVA (Bulk)	14 TB	-
HDWR21CEZSTA (Retail)	12 TB	-
HDWR21CUZSVA (Bulk)	12 TB	-
HDWR11AEZSTA (Retail)	10 TB	-
HDWR11AUZSVA (Bulk)	10 TB	-
HDWF180EZSTA (Retail)	8 TB	-
HDWF180UZSVA (Bulk)	8 TB	-
HDWE160EZSTA (Retail)	6 TB	-
HDWF160UZSVA (Bulk)	6 TB	-
HDWE150EZSTA (Retail)	5 TB	-
HDWF150UZSVA (Bulk)	5 TB	-
HDWE140EZSTA (Retail)	4 TB	-
HDWF140UZSVA (Bulk)	4 TB	-

## Logistical Information:

Box dimensions	189.0 mm (H) x 136.0 mm (W) x 60.0 mm (D)
Box weight (gross)	915 g max.
Master carton dimensions	265 x 150 x 210mm
Master carton weight (gross)	3914 g max.
Boxes per master carton	4 pcs
Pallet dimensions	1150 x 1150 x 130 mm
Pallet weights (net)	n/A
Units per pallet	480 pcs
Units per carton	20 pcs.
Carton dimensions	410 x 308 x 228 mm, 486 x 296 x 200 mm (12TB, 14TB)
Carton weight (gross)	17 kg (typ.), 16 kg (typ.) (4TB, 5TB)
Units per pallet	600 pcs.

## Contact

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