

PC

# X300 Performance Hard Drive

Level up your drive performance



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


Color

EMEA Region, Toshiba Storage Solutions - The 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 512 MB or 256 MB buffer. It even features improved positional accuracy for stable recording. The X300 is available in capacities of up to 16 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



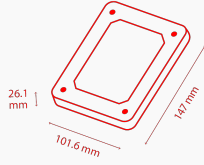
- SATA** 3.5" SATA Hard Drive
- RPM** 7200 rpm
-  256/512 MB buffer
-  Toshiba Dynamic Cache Technology
-  Toshiba Stable Platter Technology

## Manual

[Installation-and-Safety-Internal-HDDs.pdf](#) 



# 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>	512 MB (14 TB, 16 TB) 256 MB (4 TB - 12 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 10 <sup>14</sup> bits read

## Power Management

<b>Supply voltage</b>	5VDC (+10%/-7%) / 12VDC (±10%) (14 TB, 16 TB), 5VDC (±5%) / 12VDC (±10%) (4TB, 12 TB), 5VDC (+10%/-5%) / 12VDC (±10%) (6 TB, 8 TB, 10 TB)
<b>Consumption (operating)</b>	6.91 W typ. (14 TB, 16 TB), 6.77 W typ. (12 TB), 9.48 W typ. (10 TB), 8.41 W typ. (8 TB), 7.72 W typ. (6 TB), 6.81 W typ. (4 TB)
<b>Consumption - Active Idle</b>	4.03 W typ. (14 TB, 16 TB), 4.54 W typ. (12 TB), 7.22 W typ. (10 TB), 5.61 W typ. (8 TB), 4.93 W typ. (6 TB), 4.00 W typ. (4 TB)

## Box Content

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

## Physical

<b>Weight (approx.)</b>	693 g max. (4 TB), 700 g max. (6 TB), 770 g max. (10 TB), 720 g max. (8 TB, 12 TB, 14 TB, 16 TB)
<b>Dimensions</b>	147 (L) x 101.6 (W) x 26.1 (H) mm

## Environmental

<b>Acoustics (idle mode)</b>	20 dB typ. (12 TB - 16 TB), 34 dB typ. (10 TB), 31 dB typ. (4 TB, 6 TB, 8 TB)
<b>Shock (non-operating)</b>	2450 m/s <sup>2</sup> (250 G) / 2 ms duration (6 TB - 16 TB) 2940 m/s <sup>2</sup> (300 G) / 2 ms duration (4 TB)
<b>Shock (operating)</b>	10 TB - 16 TB: 686 m/s <sup>2</sup> (70 G) / 2 ms duration 6 TB - 8 TB: 784 m/s <sup>2</sup> {70G} (2 ms duration) 4 TB: 784 m/s <sup>2</sup> {80 G} (2 ms duration)
<b>Vibration (non-operating)</b>	29.4 m/s <sup>2</sup> (3.0 G) (5 to 500Hz)
<b>Vibration (operating)</b>	10 TB - 16 TB: 7.35 m/s <sup>2</sup> (0.75 G) (5 to 300 Hz) 2.45 m/s <sup>2</sup> (0.25 G) (300 to 500 Hz) 4 TB - 8 TB: 7.35 m/s <sup>2</sup> (0.75 G) (2 to 300 Hz) 4.90 m/s <sup>2</sup> (0.50 G) (300 to 350 Hz) 2.45 m/s <sup>2</sup> (0.25 G) (350 to 500 Hz)

# Product Range

Part number	Capacity	Color
HDWR31GUZSVA (Bulk)	16 TB	-
HDWR31EEZSTA (Retail)	14 TB	-
HDWR31EUSVA (Bulk)	14 TB	-
HDWR21CEZSTA (Retail)	12 TB	-
HDWR21CUSVA (Bulk)	12 TB	-
HDWR11AEZSTA (Retail)	10 TB	-
HDWR11AUSVA (Bulk)	10 TB	-
HDWR480EZSTA (Retail)	8 TB	-
HDWR480USVA (Bulk)	8 TB	-
HDWR460EZSTA (Retail)	6 TB	-
HDWR460USVA (Bulk)	6 TB	-
HDWR440EZSTA (Retail)	4 TB	-
HDWR440USVA (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 (4 TB - 10 TB) 500 x 310 x 228 mm (12 TB - 16TB)
Carton weight (gross)	17 kg (typ.), 16 kg (typ.) (4TB)
Units per pallet	600 pcs.

## Contact

### Toshiba Electronics Europe GmbH

Hansaallee 181  
40549 Düsseldorf  
Germany