

PC

X300 Performance Hard Drive

Level up your drive performance



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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-high512 MB, 256 MB or 128 MB buffer. It even features improved positional accuracy for stable recording. The X300 is available in capacities of up to16 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
- 128/256/512 MB buffer
- Toshiba Dynamic Cache Technology
- Toshiba Stable Platter Technology

Manual

[Toshiba Installation and Safety.pdf](#)



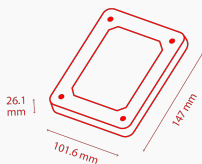
Tools

[ToshibaStorageDiagnosticTool 1.30.8920.zip](#)





Product Specifications



Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen Free	Yes

Performance

Rotational speed	7,200 rpm
Buffer size	Bulk 512 MB (16 TB) 256 MB (8 TB - 14 TB) 128 MB (4 TB - 6 TB) Retail 512 MB (16 TB) 256 MB (6 TB - 14 TB) 128 MB (4 TB)
Average latency	4.17 ms
Native Command Queuing (NCQ)	supported

Reliability

MTTF	600,000 hours
Unrecoverable error rate	1 per 10 ¹⁴ bits read

Power Management

Supply voltage	5VDC (+10%/-7%) / 12VDC (±10%) (16 TB), 5VDC (±5%) / 12VDC (±10%) (12 TB, 14 TB), 5VDC (+10%/-5%) / 12VDC (±10%) (8 TB, 10 TB), 5VDC (±5%) / 12VDC (±5%) (4 TB - 6 TB)
Consumption (operating)	Bulk 6.91 W typ. (16 TB), 6.77 W typ. (12 TB, 14 TB), 9.92 W typ. (8 TB, 10 TB), 11.3 W typ. (4 TB - 6 TB) Retail 6.91 W typ. (16 TB), 6.77 W typ. (12 TB, 14 TB), 9.92 W typ. (6 TB, 10 TB), 11.3 W typ. (4 TB)

Box Content

Box Content	3.5-inch internal HDD - X300 Performance Hard Drive
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Physical

Weight (approx.)	770 g max. (6 TB - 10 TB), 720 g max. (4 TB, 5 TB, 12 TB, 14 TB, 16 TB)
Dimensions	147 (L) x 101.6 (W) x 26.1 (H) mm

Environmental

Acoustics (idle mode)	20 dB typ. (12 TB - 16 TB), 34 dB typ. (6 TB - 10 TB), 31 dB typ. (4 TB, 5 TB)
Shock (non-operating)	2450 m/s ² (250 G) / 2 ms duration (8 TB - 16 TB) 2940 m/s ² (300 G) / 2 ms duration (4 TB - 6 TB)
Shock (operating)	686 m/s ² (70 G) / 2 ms duration
Vibration (non-operating)	Bulk 29.4 m/s ² (3.0 G) (5 to 500 Hz) (8 TB - 16 TB), 49.0 m/s ² (5.0 G) (5 to 500 Hz) or less (4 TB - 6 TB) Retail 29.4 m/s ² (3.0 G) (5 to 500Hz) (6 TB - 16 TB), 49.0 m/s ² (5.0 G) (5 to 500Hz) or less (4 TB)
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Temperature (operating / non-operating)	5 to 60° C / -40 to 70°C

Product Range

Part number	Capacity	Color
HDWR31GUZSVA (Bulk)	16 TB	-
HDWR21EEZSTA (Retail)	14 TB	-
HDWR21EUZSVA (Bulk)	14 TB	-
HDWR21CEZSTA (Retail)	12 TB	-
HDWR21CUZSVA (Bulk)	12 TB	-
HDWR11AEZSTA (Retail)	10 TB	-
HDWR11AUZSVA (Bulk)	10 TB	-
HDWR180EZSTA (Retail)	8 TB	-
HDWR180UZSVA (Bulk)	8 TB	-
HDWR160EZSTA (Retail)	6 TB	-
HDWF160UZSVA (Bulk)	6 TB	-
HDWE150EZSTA (Retail)	5 TB	-
HDWF150UZSVA (Bulk)	5 TB	-
HDWE140EZSTA (Retail)	4 TB	-
HDWE140UZSVA (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
Carton weight (gross)	17 kg (typ.), 16 kg (typ.) (4TB, 5TB)
Units per pallet	600 pcs.

Contact

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