

PC

X300 Performance Hard Drive

Level up your drive performance



18 TB 16 TB 14 TB 12 TB 10 TB 8 TB 6 TB 4 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 18 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



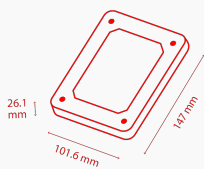
- ? 3.5" SATA Hard Drive
- ? 7200 rpm
- ? 256/512 MB buffer
- ? Toshiba Dynamic Cache Technology
- ? Toshiba Stable Platter Technology

Manual

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



Product Specifications



Basic Specifications

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

Performance

Rotational speed	7,200 rpm
Buffer size	512 MB (14 TB HDWR31E, 16 TB, 18 TB), 256 MB (4 TB - 12 TB, 14 TB HDWR21E)
Average latency	4.17 ms
Native Command Queing (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%) (14 TB HDWR31E, 16 TB, 18 TB), 5VDC (±5%) / 12VDC (±10%) (4TB, 12 TB, 14 TB HDWR21E), 5VDC (+10%/-5%) / 12VDC (±10%) (6 TB, 8 TB, 10 TB)
Consumption (operating)	7.48 W typ. (18 TB), 6.91 W typ. (14 TB HDWR31E, 16 TB), 6.77 W typ. (12 TB, 14 TB HDWR21E), 9.48 W typ. (10 TB), 8.41 W typ. (8 TB), 7.72 W typ. (6 TB), 6.81 W typ. (4 TB)
Consumption - Active Idle	4.14 W typ. (18 TB), 4.03 W typ. (14 TB HDWR31E, 16 TB), 4.54 W typ. (12 TB, 14 TB HDWR21E), 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

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

Weight (approx.)	693 g max. (4 TB), 700 g max. (6 TB), 770 g max. (10 TB), 720 g max. (8 TB, 12 TB - 18 TB)
Dimensions	147 (L) x 101.6 (W) x 26.1 (H) mm

Environmental

Acoustics (idle mode)	20 dB typ. (12 TB - 18 TB), 34 dB typ. (10 TB), 31 dB typ. (4 TB, 6 TB, 8 TB)
Shock (non-operating)	2450 m/s2 (250 G) / 2 ms duration (6 TB - 18 TB) 2940 m/s2 (300 G) / 2 ms duration (4 TB)
Shock (operating)	10 TB - 18 TB: 686 m/s2 (70 G) / 2 ms duration 4 TB - 8 TB 784 m/s2 {80 G} {2 ms duration)
Vibration (non-operating)	29.4 m/s2 (3.0 G) (5 to 500Hz)
Vibration (operating)	10 TB - 18 TB: 7.35 m/s2 (0.75 G) (5 to 300 Hz) 2.45 m/s2 (0.25 G) (300 to 500 Hz) 4 TB - 8 TB: 7.35 m/s2 (0.75 G) (5 to 300 Hz) 4.90 m/s2 (0.50 G) (300 to 350 Hz) 2.45 m/s2 (0.25 G) (350 to 500 Hz)

Product Range

Part number	Capacity	Color
HDWR51JUZSVA (Bulk)	18 TB	-
HDWR31GUZSVA (Bulk)	16 TB	-
HDWR31EEZSTA (Retail)	14 TB	-
HDWR31EUZSVA (Bulk)	14 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	-
HDWR480EZSTA (Retail)	8 TB	-
HDWR480UZSVA (Bulk)	8 TB	-
HDWR460EZSTA (Retail)	6 TB	-
HDWR460UZSVA (Bulk)	6 TB	-
HDWR440EZSTA (Retail)	4 TB	-
HDWR440UZSVA (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 - 18TB)
Carton weight (gross)	17 kg (typ.), 16 kg (typ.) (4TB)
Units per pallet	600 pcs.

Contact

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