



High performance, premium storage

X300 - High-Performance Hard Drive



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 128 GB buffer. It even features improved positional accuracy for stable recording. The X300 is available in capacities of up to 8 TB – ideal for PC gamers, graphic designers, and other users with demanding storage requirements.

Target devices:

Powerful desktop workstations, all-in-one PCs, gaming computers, home media computers.

Target applications:

High performance tasks – from editing photos and videos, to enjoying graphics-intensive gaming.



Premium storage

For when you need more, the X300 delivers. Available in storage capacities of up to 8 TB, the X300 is able to meet your every requirement.



Performance alongside reliability

The dual-stage actuator improves positional accuracy, negating the effects on head-track alignment that vibrations can cause.



Advanced technologies

Optimization of cache allocation during reading and writing for improved performance in real-time domains.

Top features:

- Enhanced real-time performance
- High anti-oscillation performance
- Curbed system induced vibration
- Data protection technology
- High storage density and capacity
- Large buffer: 128 MB



Specifications and Performance

Part number:	X300 - High-Performance Hard Drive, 8 TB:	HDWF180EZSTA (Retail) HDWF180UZSVA (Bulk)
	X300 - High-Performance Hard Drive, 6 TB:	HDWE160EZSTA (Retail) HDWF160UZSVA (Bulk)
	X300 - High-Performance Hard Drive, 5 TB:	HDWE150EZSTA (Retail) HDWF150UZSVA (Bulk)
	X300 - High-Performance Hard Drive, 4 TB:	HDWE140EZSTA (Retail) HDWF140UZSVA (Bulk)
Form factor:	3.5-inch	
Interface:	SATA 6.0 Gbit/s	
Available capacities:	8 TB, 6 TB, 5 TB, 4 TB	
Advanced Format (AF):	yes	
RoHS compatible:	yes	
Halogen Free:	yes	
Performance		
Rotational speed:	7200 rpm	
Buffer size:	128 MB	
Average latency:	4.17 ms	
Native Command Queing (NCQ):	supported	
Reliability		
Unrecoverable error rate:	1 per 10E14 bits read	
Power Management		
Supply voltage:	5VDC (±5 %) / 12VDC (±5 %)	
Consumption - Read/Write:	11.3 W typ.	
Consumption - Low Power Idle:	6.0 W typ.	
Environmental		
Temperature (operating):	5 to 55 °C	
Temperature (non-operating):	-40 to 70 °C	
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)	
Vibration (non-operating):	49 m/s ² {5 G} (5 to 500 Hz)	
Shock (operating):	686 m/s ² {70 G} (2 ms half sine)	
Shock (non-operating):	2,940 m/s ² {300 G} (2 ms half sine)	
Acoustics (idle mode):	31 dB typ. (4 TB, 5 TB), 34 dB typ. (6 TB, 8 TB)	
Physical		
Dimensions:	147 (L) x 101.6 (W) x 26.1 (H) mm	
Weight:	720 g (4 TB, 5 TB), 770 g (6 TB, 8 TB)	

Box Content

- 3.5-inch internal HDD - X300 High-Performance Hard Drive
- Quick Start Guide
- Warranty Leaflet