

TOSHIBA
Leading Innovation >>>



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 that's ideal for PC gamers, graphic designers, and other users with high demanding requirements. Dual-stage actuator design improves positional accuracy throughout reading and writing to reduce the interruptions caused by vibrations, while Perpendicular Magnetic Recording and Tunnel Magneto-Resistive technologies ensure stable recording that makes the most of your hard drive space. Not only do the X300's features support easy reading and writing, but they promote safe storage with a ramp loading design that prevents damage on the move, as well as shock resistance that will cut the power in the event of physical stress to the hard drive or desktop system, keeping your stored media secure and intact. Available in capacities of up to 8 TB, the X300 puts the renowned power and reliability of Toshiba technology to work in your desktop PC.

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.

X300 - High-Performance Hard Drive

Specifications

Part number:	X300 - High-Performance Hard Drive, 8 TB: HDWF180EZSTA (Retail) X300 - High-Performance Hard Drive, 6 TB: HDWE160EZSTA (Retail) X300 - High-Performance Hard Drive, 5 TB: HDWE150EZSTA (Retail) X300 - High-Performance Hard Drive, 4 TB: HDWE140EZSTA (Retail)
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 Queuing (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



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

Retail packaging

