



Performance that meets demands

P300 - High-Performance Hard Drive

Toshiba's P300 3.5" internal hard drive delivers a high performance for professionals. With its dual-stage actuator, you can count on smooth, responsive computing. What's more, your data and media is secured with a ramp loading design that prevents damage on the move, as well as a shock sensor. The P300 is available in capacities up to 3 TB.

Target devices:

Primary storage, all-in-one PCs, desktop PCs, external enclosures, gaming computers, powerful desktop workstations

Target applications:

Challenging applications including gaming, photo editing and video review



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



Keep data secure
The P300's design includes an internal shock sensor and ramp load technology, ensuring no data is lost.



Advanced read and write technology
With Perpendicular Magnetic Recording technology and Tunnel Magneto-Resistive recording technology the P300 is equipped for fast and secure reading and writing of data.

Top features:

- Optimal for desktop primary devices
- High performance and reliability
- Data protection technology



Specifications and Performance

Part number:	P300 - High-Performance Hard Drive, 3 TB:	HDWD130EZSTA (Retail), HDWD130UZSVA (Bulk)
	P300 - High-Performance Hard Drive, 2 TB:	HDWD120EZSTA (Retail), HDWD120UZSVA (Bulk)
	P300 - High-Performance Hard Drive, 1 TB:	HDWD110EZSTA (Retail), HDWD110UZSVA (Bulk)
	P300 - High-Performance Hard Drive, 500 GB:	HDWD105EZSTA (Retail), HDWD105UZSVA (Bulk)
Form factor:	3.5-inch	
Interface:	SATA 6.0 Gbit/s	
Available capacities:	3 TB, 2 TB, 1 TB, 500 GB	
Advanced Format (AF):	yes	
RoHS compatible:	yes	
Halogen Free:	yes	
Performance		
Rotational speed:	7200 rpm	
Buffer size:	64 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 (±10 %)	
Consumption - Read/Write:	6.4 W typ.	
Consumption - Low Power Idle:	5.2 W typ. (3 TB & 2 TB), 3.7 W typ. (1 TB & 500 GB)	
Environmental		
Temperature (operating):	0 to 60 °C	
Temperature (non-operating):	-40 to 70 °C	
Vibration (operating):	6.57 m/s ² {0.67 G} (5 to 500 Hz)	
Vibration (non-operating):	10.2 m/s ² {1.04 G} (2 to 200 Hz)	
Shock (operating):	686 m/s ² {70 G} (2 ms half sine)	
Shock (non-operating):	3,430 m/s ² {350 G} (2 ms half sine) (500 GB & 1 TB) 2,920 m/s ² {350 G} (2 ms half sine) (2 TB & 3 TB)	
Acoustics (idle mode):	27 dB typ. (3 TB & 2 TB), 25 dB typ. (1 TB & 500 GB)	
Acoustics (seek mode):	28 dB typ. (3 TB & 2 TB), 26 dB typ. (1 TB & 500 GB)	
Physical		
Dimensions:	147 (L) x 101.6 (W) x 26.1 (H) mm	
Weight:	680 g max. (3 TB & 2 TB), 450 g max. (1 TB & 500 GB)	

Box Content

- 3.5-inch internal HDD - P300 High-Performance Hard Drive
- Quick Start Guide
- Warranty Leaflet