



P300 - High-Performance Hard Drive



Performance that meets demands

Toshiba's P300 3.5" internal hard drive is designed for professional users looking to enhance their PC – delivering a higher performance with capacities of up to 3 TB. Dual-stage actuator design in the 2 TB and 3 TB models 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 P300'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 a shock sensor keeping your stored media secure and intact. Available in capacities of 500 GB, 1 TB, 2 TB, and 3 TB, the P300 puts the renowned power and reliability of Toshiba technology to work in your desktop PC.

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.

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Specifications

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 Queing (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



Top features:

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

Retail packaging

