

TOSHIBA



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P300

Desktop PC Hard Drives

Performance meets reliability

The 3.5-inch P300 Desktop PC Hard Drive delivers high performance for everyday home or office computing needs. With its two-stage actuator, you can count on smooth, responsive processing power. In addition, your data and media are secured with a loading ramp design to prevent data loss or drive wear and tear. The P300 is available in capacities up to 6 TB.

Use for

- Desktop Workstations
- All-in-one PCs
- Desktop PCs
- External enclosures

Top Features

- SATA** 3.5" SATA Hard Drive
- RPM** 5,400 rpm (6 | 4 | 2 TB)
7,200 rpm (3 | 2 | 1 TB)
-  256 MB buffer (2 TB)
128 MB buffer (6 | 4 | 2 TB)
64 MB buffer (3 | 1 TB)

Capacities

6 TB **4 TB** **3 TB** **2 TB** **1 TB**



P300

 Desktop PC Hard Drives

	6 TB	4 TB	3 TB	2 TB	2 TB	1 TB
Retail Number	HDWD260EZSTA	HDWD240EZSTA	HDWD130EZSTA	HDWD320EZSTA	HDWD220EZSTA	HDWD110EZSTA
Bulk Number	HDWD260UZSVA	HDWD240UZSVA	HDWD130UZSVA	HDWD320UZSVA	HDWD220UZSVA	HDWD110UZSVA

Basic Specifications

Form factor	3.5-inch					
Interface	SATA 6.0 Gbit/s					
Native command queuing (NCQ)	supported					
Shock Sensor	yes					
Advanced Format (AF)	yes					
RoHS compatible	yes					
Halogen free	yes					
Recording Technology	SMR		CMR	SMR		CMR

Performance

Rotational speed (rpm)	5,400		7,200		5,400	7,200
Buffer size (MB)	128		64	256	128	64
Average latency (ms)	5.56			4.17	5.56	4.17

Reliability

Unrecoverable error rate	1 per 10^14			
Load/Unload cycle	600,000	300,000	600,000	300,000
Limited warranty (years)	2			

Power Management

Supply voltage	5 V DC ±5 % 12 V DC ±10 %					
Consumption (operating)	4.46 W typ.	4.11 W typ.	7.3 W typ.	5.21 W typ.	4.14 W typ.	6.4 W typ.
Consumption (active idle)	2.68 W typ.	2.32 W typ.	5.2 W typ.	2.92 W typ.	2.11 W typ.	3.7 W typ.

Environmental

Temperature (operating/non-operating)	0 to 60 °C -40 to 65 °C		0 to 65 °C -40 to 70 °C	0 to 60 °C -40 to 70 °C	0 to 60 °C -40 to 65 °C	0 to 65 °C -40 to 70 °C
Vibration (operating)	4.90 m/s ² {0.50 G} (5 to 350 Hz) 2.45 m/s ² {0.25 G} (350 to 500 Hz)		6.57 m/s ² {0.67 G} (5 to 500 Hz)	4.90 m/s ² {0.50 G} (5 to 350 Hz) 2.45 m/s ² {0.25 G} (350 to 500 Hz)		6.57 m/s ² {0.67G} (5 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)		10.2 m/s ² {1.04G} (2 to 200 Hz)	29.4 m/s ² {3.0 G} (5 to 500 Hz)		10.2 m/s ² {1.04G} (2 to 200 Hz)
Shock (operating)	686 m/s ² {70 G} (2 m duration)			785 m/s ² {80 G} (2 m duration)	686 m/s ² {70 G} (2 m duration)	
Shock (non-operating)	2,940 m/s ² {300 G} (2 m duration)	3,430 m/s ² {350 G} (2 msduration)	2,940 m/s ² {300 G} (2 m duration)	3,432 m/s ² {350 G} (2 m duration)	3,430 m/s ² {350 G} (2 m duration)	3,432 m/s ² {350G} (2 m duration)
Acoustics (idle mode)	24 dB typ.	22 dB typ.	27 dB typ.	25 dB typ.	21 dB typ.	25 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H)					
Weight	680 g	650 g	680 g	450 g	440 g	450 g