



## E300 - Low-Energy Hard Drive



## Low-energy, efficient storage

Toshiba's E300 3.5" internal hard drive is designed for your desktop PC – offering energy-efficient local or networked storage for everyday requirements, in capacities of up to 3 TB. The E300's reliable performance comes from the many technologies at work inside – a dual-stage actuator and RV sensor improve positional accuracy to reduce 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. The E300 also ensures data is stored safely; ramp loading technology prevents damage on the move, and a shock sensor keeping your stored media secure and intact. Despite the many features of the E300, it remains cool and quiet during operation, reducing power consumption – and putting the renowned efficiency and reliability of Toshiba technology to work in your desktop PC.

Target devices: Desktop PCs, All-in-one PCs, Secondary storage, Workstations  
Target applications: Everyday applications, system enhancement



**Performance alongside efficiency**  
The E300's dual-stage actuator and RV sensor improve positional accuracy and the performance of the hard drive.



**Low temperature, low noise**  
Built-in silent operation technology ensures that the E300 operates quietly. Low RPM also reduces the generation of heat during operation.



**Low power consumption**  
When compared to 7200 rpm hard drive models, the E300 cuts power consumption by up to 25%.

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### Specifications

Part number:	E300 - Low-Energy Hard Drive, 3 TB: HDWA130EZSTA (Retail), HDWA130UZSVA (Bulk) E300 - Low-Energy Hard Drive, 2 TB: HDWA120EZSTA (Retail), HDWA120UZSVA (Bulk)
Form factor:	3.5-inch
Interface:	SATA 6.0 Gbit/s
Available capacities:	2 TB, 3 TB
Advanced Format (AF):	yes
RoHS compatible:	yes
Halogen Free:	yes
<b>Performance</b>	
Rotational speed:	5940 rpm (3 TB), 5700 (2 TB)
Buffer size:	64 MB
Average latency:	5.06 ms (3 TB), 5.27 ms (2 TB)
Native Command Queuing (NCQ):	supported
<b>Reliability</b>	
Unrecoverable error rate:	1 per 10E14 bits read
<b>Power Management</b>	
Supply voltage:	5VDC (±5 %) / 12VDC (±10 %)
Consumption - Read/Write:	4.7 W typ. (2 TB), 5.4 W typ. (3 TB)
Consumption - Low Power Idle:	3.3 W typ. (2 TB), 4.2 W typ. (3 TB)
<b>Environmental</b>	
Temperature (operating):	0 to 60 °C
Temperature (non-operating):	-40 to 70 °C
Vibration (operating):	6.57 m/s <sup>2</sup> {0.67 G} (5 to 500 Hz)
Vibration (non-operating):	10.2 m/s <sup>2</sup> {1.04 G} (2 to 200 Hz)
Shock (operating):	686 m/s <sup>2</sup> {70 G} (2 ms half sine)
Shock (non-operating):	2,920 m/s <sup>2</sup> {350 G} (2 ms half sine) (2 TB & 3 TB)
Acoustics (idle mode):	25 dB typ. (3 TB), 23 dB typ. (2 TB)
Acoustics (seek mode):	26 dB typ. (3 TB), 25 dB typ. (2 TB)
<b>Physical</b>	
Dimensions:	147 (L) x 101.6 (W) x 26.1 (H) mm
Weight:	680 g max.

### Box Content

- 3.5-inch internal HDD - E300 Low-Energy Hard Drive
- Quick Start Guide
- Warranty Leaflet



### Top features:

- Eco-friendly performance
- Silent operation
- Efficient power management
- Data protection technology

### Retail packaging

