

WD Ultrastar DC HC555 (0B47745)

WD Ultrastar DC HC555 - Hard drive - Data Centre - 16 TB - internal - 3.5" - SAS 12Gb/s - 7200 rpm - buffer: 512 MB



The WD Ultrastar DC HC555 is designed for data centers requiring robust performance and reliability. With a capacity of 16 TB, it provides ample storage for large-scale applications. The 7200 rpm spindle speed combined with a data transfer rate of 1.2 GBps allows for fast data access and efficient operations. Built to withstand the rigors of continuous 24x7 operation, this hard drive ensures optimal performance even under demanding workloads. Its advanced features such as Dynamic fly height technology and Rotational Vibration sensor enhance data integrity and drive longevity, making it an ideal choice for enterprise environments. Operating efficiently in a temperature range from 5°C to 60°C, the WD Ultrastar DC HC555 is equipped to handle the diverse conditions present in data centers. The drive's MTBF of 2,500,000 hours and low sound emission of 32 dBA further underscore its reliability and quiet operation. With advanced formats like 512e and 4Kn, this internal hard drive accommodates various data management needs, making it a versatile solution for high-capacity storage requirements.

Key Selling Points

- 16 TB capacity for large-scale applications
- 7200 rpm spindle speed for fast data access
- Engineered for 24x7 continuous operation
- Dynamic fly height technology ensures data integrity
- Low sound emission of 32 dBA

Product Features

- Robust performance**
With a data transfer rate of 1.2 GBps and an average latency of 4.16 ms, this drive handles demanding workloads efficiently.
- Reliable design**
The WD Ultrastar DC HC555 boasts an MTBF of 2,500,000 hours, assuring long-term reliability for data center applications.
- Flexible operating range**
Operating efficiently at temperatures from 5°C to 60°C, this hard drive supports a wide variety of environmental conditions.
- Advanced technology**
Features like HelioSeal, Triple State Actuator, and Rotational Vibration sensor enhance both performance and durability.
- High storage efficiency**
The combination of 16 TB capacity and advanced formatting options provides data management capabilities.

Main specifications

Product Description	WD Ultrastar DC HC555 - hard drive - Data Centre - 16 TB - SAS 12Gb/s
Type	Hard drive - internal
Capacity	16 TB
Form Factor	3.5"
Interface	SAS 12Gb/s
Data Transfer Rate	1.2 GBps
Buffer Size	512 MB
Spindle Speed	7200 rpm
Drive Class	Data Centre
Features	Advanced format 512e, advanced format 4Kn, 24x7 continuous operation, Triple State Actuator (TSA), Dynamic fly height technology, HelioSeal, Rotational Vibration (RV) sensor, Conventional magnetic recording (CMR), Energy-assisted PMR (ePMR)
Dimensions (WxDxH)	101.6 mm x 147 mm x 26.1 mm
Weight	690 g
Manufacturer Warranty	5-year warranty

Extended specification

General

Device Type	Hard drive - internal
Capacity	16 TB
Form Factor	3.5"

Interface	SAS 12Gb/s
Buffer Size	512 MB
Features	Advanced format 512e, advanced format 4Kn, 24x7 continuous operation, Triple State Actuator (TSA), Dynamic fly height technology, HelioSeal, Rotational Vibration (RV) sensor, Conventional magnetic recording (CMR), Energy-assisted PMR (ePMR)
Width	101.6 mm
Depth	147 mm
Height	26.1 mm
Weight	690 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Miscellaneous

Compliant Standards	BSMI, ICES-003, NMB-003, FCC, KC, Maghreb, RCM, UKCA, VCCI, CB Scheme, TUV, UL, Directive 2015/863, EU Directive 2011/65/EU
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Power

Power Consumption	9.2 watt (typical) † 5.7 watt (idle)
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Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	60 °C
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Shock Tolerance (operating)	50 g @ 2 ms half-sine wave
Shock Tolerance (non-operating)	250 g @ half-sine wave
Vibration Tolerance (operating)	0.67 g @ 5-500 Hz
Vibration Tolerance (non-operating)	1.04 g @ 2-200 Hz
Sound Emission	32 dBA

Performance

Drive Class	Data Centre
Drive Transfer Rate	1.2 GBps (external)
Internal Data Rate	269 MBps
Average Latency	4.16 ms
Spindle Speed	7200 rpm

Reliability

MTBF	2,500,000 hours
24x7 Operation	Yes
Non-Recoverable Errors	1 per 10 ¹⁵
Load / Unload Cycles	600,000

Software & System Requirements

OS Required	Microsoft Windows, Linux, Microsoft Windows Server
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Expansion & Connectivity

Interfaces	1 x SAS 12 Gb/s
Compatible Bay	3.5"

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