WD Ultrastar DC HC555 (0B48723)

WD Ultrastar DC HC555 - Hard drive - Data Centre - 18 TB - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 512 MB



The WD Ultrastar DC HC555 offers a robust 18 TB capacity designed to meet the demands of data centers and enterprise storage. Engineered with heating technologies like HelioSeal and dynamic fly height, this hard drive maintains optimal performance under varying conditions. With a data transfer rate of 600 MBps and a spindle speed of 7200 rpm, it ensures efficient data handling for 24x7 operations. Durability is a ke against shocks and vibrations, making it ideal for critical applications. It operates at a low sound level of 32 dBA, ensuring minimal disruption in noise-sensitive environments. The versatile 3.5" form factor and compliance with various standards underscore its reliability and suitability for diverse storage needs.

Key Selling Points

18 TB capacity suitable for data centers
Data transfer rate up to 600 MBps
Designed for 24x7 continuous operation
Low sound emission of 32 dBA
High durability with a MTBF of 2,500,000 hours

Product Features

High capacity for extensive storage needs
The 18 TB capacity accommodates large volumes of data, providing ample space for significant workloads in data centers and enterprise environments.

Efficient data handling performance
With an average latency of 4.16 ms and a data transfer rate of 600 MBps, this hard drive ensures quick access to data and optimal performance for demanding applications.

Robust design for reliability
Engineered with features like Rotational Vibration sensor and Triple State Actuator technology, the drive maintains performance consistency even in challenging operational environments.

Energy efficient operation
Operating at idle power consumption of 5.3 watts and typical power consumption of 6.4 watts, this hard drive optimizes energy usage without sacrificing performance.

Proven endurance and durability
With a MTBF of 2,500,000 hours and strong resistance to operational shocks of 50 g, this drive is built to last under heavy usage conditions, making it a reliable choice for important data.

Main specifications

Product Description	*WD Ultrastar DC HC555 - hard drive - Data Centre - 18 TB - SATA 6Gb/s*
Type	*Hard drive - internal*
Capacity	*18 TB*
Form Factor	*3.5"*
Interface	*SATA 6Gb/s*
Data Transfer Rate	*600 MBps*
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

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*

General

Device Type	*Hard drive - internal*
Capacity	*18 TB*
Form Factor	*3.5"*
Interface	*SATA 6Gb/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*

Performance

Drive Class	*Data Centre*
Drive Transfer Rate	*600 MBps (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*

Manufacturer Warranty

Service & Support	*Limited warranty - 5 years*

Expansion & Connectivity

Interfaces	*1 x SATA 6 Gb/s*
Compatible Bay	*3.5"*

Software & System Requirements

OS Required	*Microsoft Windows, Linux, Microsoft Windows Server*

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*

Power

Power Consumption	6.4 watt (typical) ¦ 5.3 watt (idle)

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet