

WD Ultrastar DC HC560 - hard drive - 20 TB - SATA 6Gb/s(0F38785)

WD Ultrastar DC HC560 - Hard drive - 20 TB - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 512 MB



The Western Digital WD Ultrastar DC HC560 hard drive is designed to meet the needs of demanding data environments. With a generous 20 TB capacity, it offers ample space for large-scale data storage requirements. The drive is built for durability and reliability, featuring a mean time between failures (MTBF) of 2,500,000 hours, ensuring long-term dependability.

Advanced features such as Energy-Assisted Magnetic Recording (EAMR), HelioSeal, and OptiNAND technology not only enhance the drive's storage capacity but also improve its efficiency, making it an environmentally friendly choice. The inclusion of a Triple State Actuator (TSA) ensures precise and stable head positioning, leading to improved data integrity and performance. With a data transfer rate of 600 MBps and a 512 MB buffer size, this hard drive is capable of handling intensive data workloads with ease. Its 24x7 operation capability makes it an ideal choice for data centers and enterprises requiring constant data access, without the risk of downtime.

Key Selling Points

- 20 TB capacity meets the most demanding storage needs
- 600 MBps data transfer rate for quick access to data
- 512 MB buffer size enhances data processing efficiency
- Energy-efficient design with HelioSeal technology
- Robust 24x7 operation capability for uninterrupted service

Product Features

- Enhanced durability**  
Boasting a remarkable MTBF of 2,500,000 hours, this hard drive is designed for reliability and long-term performance, ensuring your data remains safe and accessible even under the most demanding conditions.
- Advanced storage technology**  
Equipped with Energy-Assisted Magnetic Recording (EAMR), HelioSeal, and OptiNAND technology, this hard drive offers increased capacity and efficiency, making it an ideal solution for high-density data environments.
- Optimized for continuous operation**  
Designed for 24x7 availability, this hard drive supports around-the-clock operation without compromising on performance, making it perfect for data centers and critical applications that require constant access to data.

Main Specifications

Product Description	WD Ultrastar DC HC560 - hard drive - 20 TB - SATA 6Gb/s
Type	Hard drive - internal
Capacity	20 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Data Transfer Rate	600 MBps
Buffer Size	512 MB
Spindle Speed	7200 rpm
Features	OptiNAND technology, HelioSeal, 24x7 availability, Energy-Assisted Magnetic Recording (EAMR), Triple State Actuator (TSA)
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	20 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Buffer Size	512 MB
Features	OptiNAND technology, HelioSeal, 24x7 availability, Energy-Assisted Magnetic Recording (EAMR), Triple State Actuator (TSA)
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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## Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	60 °C
Shock Tolerance (operating)	50 g @ 2 ms half-sine wave
Shock Tolerance (non-operating)	250 g @ 2 ms half-sine wave
Vibration Tolerance (operating)	0.7 gRMS @ 5-500 Hz
Vibration Tolerance (non-operating)	1.04 gRMS @ 2-200 Hz
Sound Emission	32 dB

## Performance

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

## Software & System Requirements

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

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