

**HDD WESTERN
DIGITAL
ULTRASTAR
Ultrastar DC
HC570 22TB SAS
512 MB 7200
rpm 3,5 MTBF
2500000 hours
0F48052**



Model: 0F48052

Manufacturer: WESTERN DIGITAL

Product Code: 23704

R21,091

Grow your data, not your footprint

The explosive growth of data from AI/ML, 5G networks, IoT, connected vehicles, and more is fueling growth in data centers. HDD innovation drives the ability to capture, store, analyze, and protect much of this data. Higher-capacity HDDs deliver higher data density, enabling data center expansion and efficiency.

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22TB to Fuel Data Center Expansion

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The Ultrastar DC HC570 22TB data center HDD with OptiNAND™ technology is the next leap in data density. This 22TB data center HDD enables an incredible 22.44PB of raw storage in a typical rack³. This higher volumetric density allows data centers to maximize their storage, especially in footprint- and power-constrained environments.

The Ultrastar DC HC570 combines several industry-first technologies on a 10-disk CMR drive, delivering the performance, quality, and reliability that data center customers require.

Low Power for Lower Operating Costs

Ultrastar HDDs are designed for optimal power over a variety of workloads. The DC HC570 features low power sequential read/write and mixed random read/write workloads.

OptiNAND Technology Benefits

The Ultrastar DC HC570 is the 2nd-generation platform with OptiNAND technology, which integrates an iNAND Universal Flash Storage (UFS) Embedded Flash Drive (EFD) with traditional spinning disk media.

Western Digital's 2.2TB/disk areal density leadership is extended to a new 10-disk platform, delivering 22TB capacity with CMR recording format. More disks and high areal density work together to maximize data storage efficiency.

OptiNAND improves drive resiliency in the event of an emergency power off (EPO) by increasing the amount of non-volatile memory (NVM) available to flush critical metadata to the iNAND.

ArmorCache is a feature enabled by OptiNAND that combines the performance of write cache enabled (WCE) mode and the data protection of write cache disabled (WCD) mode, offering the best of both scenarios. When operating in WCE mode, ArmorCache ensures that the DRAM cache will be

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safely written in event of an EPO and no data is lost. When operating in WCD mode, the drive will ensure that all user data in DRAM is safely written upon EPO, and the drive will operate with WCE-equivalent performance. Performance and data protection are now identical across both WCE and WCD modes.

Trusted Reliability and Quality for Data at Scale

The Ultrastar DC HC570 meets modern data center reliability requirements with 2.5M MTBF (projected) and a 5-year limited warranty. It is performance-optimized for heavy application workloads and is designed to handle workloads up to 550TB per year. It offers security and encryption options to help protect data from unauthorized use, including SED models.

Trust Western Digital and the Ultrastar DC HC570 hard drive to deliver the highest capacity and greatest value for your data center.

- Cloud & hyperscale storage
- Massive scale-out (MSO), high-density data centers
- Distributed File Systems
- Bulk storage using object storage solutions like Ceph and OpenStack Swift
- Primary and secondary storage for Apache Hadoop for Big Data Analytics

Summary: Western Digital Ultrastar DH HC570. HDD capacity: 22 TB, HDD speed: 7200 RPM, Storage drive buffer size: 512 MB, HDD size: 3.5", Interface: SAS | Vendor Homepage:

<https://www.westerndigital.com/products/internal-drives/data-center-drives/ultrastar-dc-hc570-hdd#0F48052> | 24/7 operation: Yes | Access time: 4.16 | Component for: Server/workstation | HDD average transfer rate: 1200 | HDD capacity: 22000 | HDD interface transfer rate: 12 | HDD size: 3.5 | HDD speed: 7200 | HDD sustained transfer rate: 291 | Interface: SAS | Mean time between failures (MTBF): 2500000 | Start/stop cycles: 6000000 | Storage drive buffer size: 512 | Type: HDD | Uncorrectable Bit Error Rate (UBER): 1 per 10¹⁵ bits read | Operating voltage: 5 / 12 | Power consumption (idle): 0.27 | Power consumption (read): 9.6 | Power consumption (typical): 6 | Power consumption (write): 9.6 | Non-operating shock: 200 | Non-operating vibration: 1.04 | Operating shock: 40 | Operating temperature (T-T): 5 - 60 | Operating vibration: 0.7 | Storage temperature (T-T): -40 - 70 | Depth: 147 | Height: 26.1 | Weight: 670 | Width: 101.6 | Harmonized System (HS) code: 84717050 | HDD Family name: Ultrastar DC HC570 | Units per Pallet: 0 | Units per Shipping Box: 20 | Unit Calculated Volume: 0.001455 | Unit Calculated Weight: 0.693

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