



## WD Ultrastar DC HC520 HUH721212AL4200

Hard drive - 12 TB - internal - 3.5" - SAS 12Gb/s - 7200 rpm - buffer: 256 MB

Group	HDDs
Manufacturer	WD
Manufacturer item no.	0F29560
EAN/UPC	8717306638913

### Description

Laying the foundation for a worry-free data center, Western Digital delivers capacity to conquer the data explosion - Ultrastar DC HC520, previously known as Ultrastar He12 and part of the HC500 series of helium-filled hard drives. Designed to handle workloads up to 550TB per year, the Ultrastar DC HC520 is the industry's first 12TB drive and uses traditional perpendicular magnetic recording (PMR) technology to make it drop-in ready for any enterprise-capacity application or environment. The stable internal environment created by fourth-generation HelioSeal technology enables an 8-disk design, increasing the capacity by 20% when compared to the 7-disk design of the prior generation, Ultrastar DC HC510. This high capacity helium drive offers one of the lowest power profiles in the industry to help data center architects meet eco-environmental goals and requirements. Targeted at 2.5M hours MTBF, the Ultrastar DC HC520 provides the highest reliability rating available of all HDDs on the market today by building on the successful design of its 10TB, 8TB and 6TB predecessors. Trust Western Digital and the Ultrastar DC HC520 to deliver more capacity, more efficiency, more reliability and more value to your data center.

### Main features

Product Description	WD Ultrastar DC HC520 HUH721212AL4200 - hard drive - 12 TB - SAS 12Gb/s
Type	Hard drive - internal
Capacity	12 TB
Form Factor	3.5"
Interface	SAS 12Gb/s
Data Transfer Rate	1.2 GBps
Buffer Size	256 MB
Spindle Speed	7200 rpm
Features	Perpendicular Magnetic Recording (PMR), Instant Secure Erase (ISE), Enterprise, 24x7 availability
Dimensions (WxDxH)	101.6 mm x 147 mm x 26.1 mm
Weight	660 g

### General

Device Type	Hard drive - internal
Capacity	12 TB
Form Factor	3.5"
Interface	SAS 12Gb/s
Buffer Size	256 MB
Bytes per Sector	4096
Features	Perpendicular Magnetic Recording (PMR), Instant Secure Erase (ISE), Enterprise, 24x7 availability
Width	101.6 mm
Depth	147 mm
Height	26.1 mm
Weight	660 g

### Performance

Drive Transfer Rate	1.2 GBps (external)
Seek Time	8 ms (average)
Average Latency	4.16 ms
Spindle Speed	7200 rpm

### Reliability

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

### Expansion & Connectivity

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

### Power

Power Consumption	9.8 Watt (active)   6.1 Watt (idle)
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### Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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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)	70 g @ 2 ms half-sine wave
Shock Tolerance (non-operating)	300 g @ 2 ms half-sine wave
Vibration Tolerance (operating)	0.67 g @ 5-500 Hz
Vibration Tolerance (non-operating)	1.04 g @ 2-200 Hz