Data Center Storage Solutions





Powering the Data Revolution

For more than 50 years, Western Digital® has been enabling data at scale. Our data center HDDs, fabric bridges, and platforms enable our customers to gain and leverage insights that they can extract from the zettabytes of data being generated by smart factories, connected endpoints, autonomous vehicles, IoT devices, and more. Our robust portfolio and our outstanding customer service help companies and individuals transform their businesses with data.

Essential Data Infrastructure for the Zettabyte Age



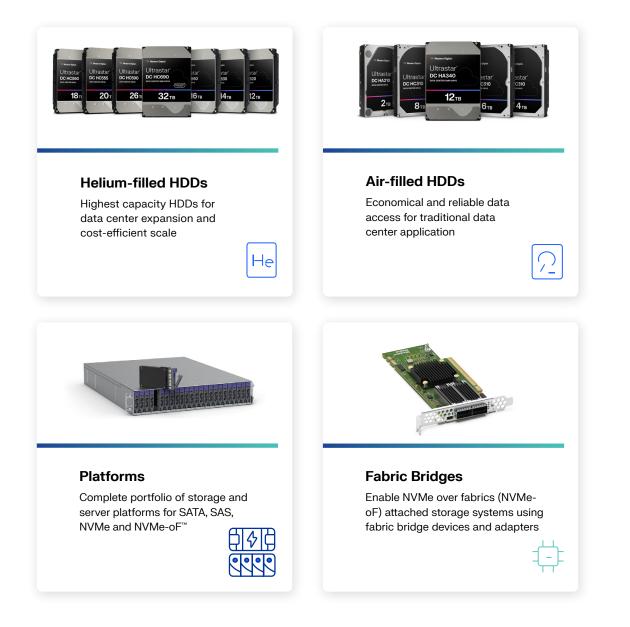
Ultrastar Data Center HDDs

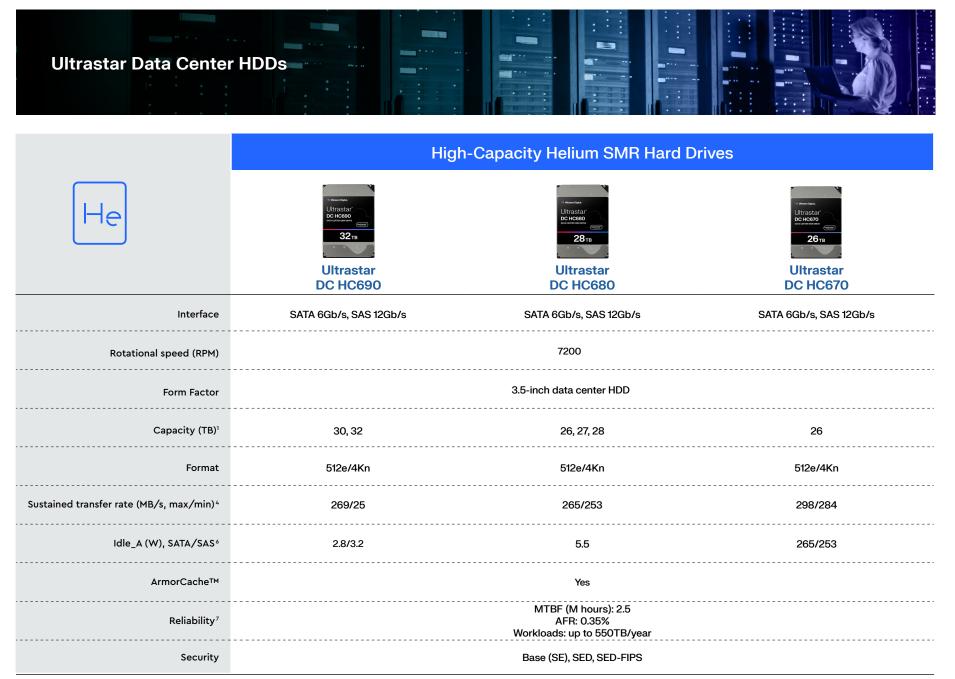
- 1st with OptiNAND[™]-enabled 26TB CMR & 32TB SMR HDDs
- 1st with Energy-Assisted Magnetic Recording technology
- 1st with Triple Stage Actuator
- 1st with 12TB air-filled HDDs
- 1st commercially available 11 disk HDDs

Ultrastar and OpenFlex[™] Platforms

- High-capacity disk storage platforms
- High-performance flash storage platforms
- Innovative ArcticFlow[™] & IsoVibe[™] technologies
- Open Composable Infrastructure Solutions
- High-performance Fabric Bridge Device
- Server and JBOF applications
- TCP and RoCE Offload
- Supported by Open Composable Infrastructure

Trusted Storage Delivering Innovation Across All Technologies

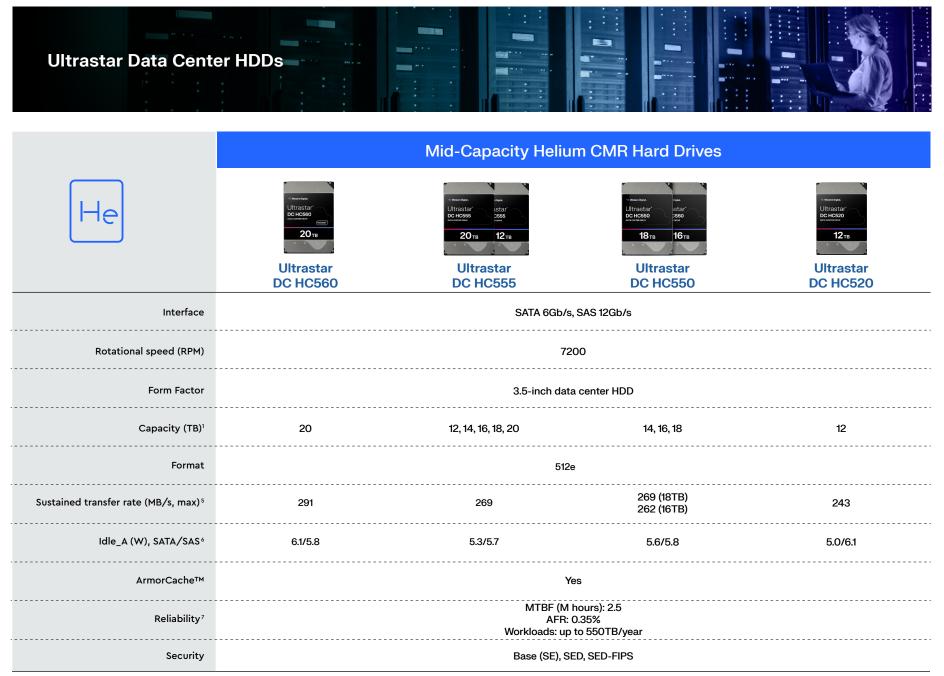




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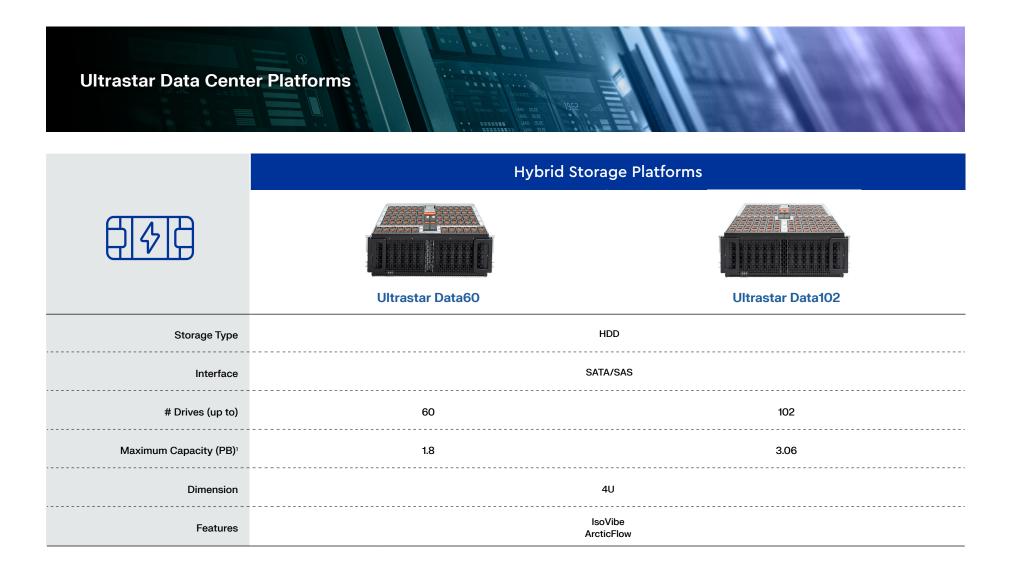
	High-Capacity Helium CMR Hard Drives		
He	Ultrastar 26 rB Ultrastar DC HC590	Uitrastar DC HC580	Ultrastar DC HC570
Interface	SATA 6Gb/s, SAS 12Gb/s	SATA 6Gb/s, SAS 12Gb/s	SATA 6Gb/s, SAS 12Gb/s
Rotational speed (RPM)	7200		
Form Factor	3.5-inch data center HDD		
Capacity (TB) ¹	24, 26	24	22, 24
Format	512e/4Kn: 4096	512e/4Kn: 4096	512e/4Kn
Sustained transfer rate (MB/s, max/min) ⁴	298/284	298/284	291/277
ldle_A (W), SATA/SAS ⁶	5.5/5.8	5.5	5.7/6.0
ArmorCache™	Yes		
Reliability ⁷	MTBF (M hours): 2.5 / AFR: 0.35% / Workloads: up to 550TB/year		
Security	Base (SE), SED, SED-FIPS		



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	Low-Capacity Air-filled CMR Hard Drives				
\square	With the start Dic HA340 With the start with the start T2TB	Ultrastar DC Lasso TO TB	Uitrastar DC HCS20 BTB	Ultrastar DCH330 6 TB	Winningen Utrastar De Nazio De viene mai
	Ultrastar DC HA340	Ultrastar DC HC330	Ultrastar DC HC320	Ultrastar DC HC310	Ultrastar DC HA210
Interface	SATA 6Gb/s		SATA 6Gb/s, SAS 12Gb/s		SATA 6Gb/s
Rotational speed (RPM)			7200		
Form Factor			3.5-inch data center HDD		
Capacity (TB) ¹	4, 6, 8, 10, 12	10	8	4, 6	1, 2
Format	512e	512e	512e	512n available on 4TB capacity	512n
Sustained transfer rate (MB/s, max)	267	262	255	255 233 w/512n	200 (2TB) 184 (1TB)
Idle (W), SATA/SAS	5.8/8.4	8.0/9.0	7.4/8.4	5.9/7.0	5.9/NA
Reliability			MTBF (M hours): 2 AFR: 0.44% Workloads: up to 550TB/year		
Security		Base (SE), S	ED, SED-FIPS		SE



OpenFlex Data Center Platforms

NVMe-oF Storage Platforms





OpenFlex Data24



OpenFlex Data24 3200



OpenFlex Data24 4000 Series

Storage Type	SSD	SSD	SSD
Interface	NVMe (NVMe-oF) 2, 4, or 6 NICs	NVMe (NVMe-oF) 6 RapidFlex C2000s	NVMe (NVMe-oF) 6 RapidFlex A2000s
Connection Type	RoCE	RoCE or TCP	RoCE or TCP
# Drives (up to)	24	24	24
Maximum Capacity (TB) ¹	368	368	368
Dimension	2U	2U	2U



	Ultrastar Transporter
Device Type	Data Transporter and Edge Storage
Maximum Storage	24 Ultrastar DC SN650 NVMe SSDs 15.36TB per SSD, 1 DW/D, ISE (Instant Secure Erase)
Network Interface	Dual Port 200GbE QSFP112
Memory	128GiB DDR4 ECC DRAM
Display	Six-button, LCD/Character
Management	IPMI 2.0 system management Dual 10GBase-T RJ-45

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RapidFlex Data Center Fabric Bridge

	NVMe-oF Controllers			
	RapidFlex A2000	RapidFlex C2000	RapidFlex C2110	
Device Type		Half-height / half-length NVMe Adapter	·	
Network Interface		vDual Ports 100 / 50 / 25 GbE		
PCle Interface			PCIe Gen 4 x 4 lanes	
NVMe Capability		NVMe 1.4 Compatible NVMe-oF 1.1 Compatible TCP and RoCEv2		
Dimension	25mm BGA	129.41mm x 68.95mm	68.8mm x 68.6mm	
Features	Bridges NVMe to NVMe-oF running on Ethernet Fabrics Enables Composable Disaggregated Infrastructure (CDI)			

¹ One gigabyte (GB) is equal to 1,000MB (one billion bytes) and one terabyte (TB) is equal to 1,000GB (one trillion bytes) and one petabyte (PB) is equal to 1,000 TB. Actual capacity may be less due to operating environment.

² Endurance rating based on DW/D using 4KiB 100% random write and JESD 219 workloads over 5 years.

^a Based on internal testing. Performance will vary by capacity point, changes in useable capacity, or security option. Consult product manual for further details. All performance measurements are in full sustained mode and are peak values. Subject to change.

⁴ MTBF and AFR specifications are based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions for this drive model. MTBF and AFR ratings do not predict an individual drive's reliability and do not constitute a warranty.

⁵ Idle specification is based on use of Idle_A

⁶ Based on internal testing; performance may vary depending on host environment, drive capacity, logical block address (LBA), and other factors. 1MiB = 1,048,576 bytes (2^20), 1MB = 1,000,000 bytes (10^6)

⁷ Final MTBF and AFR specifications will be based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions, typical workload and 40°C device-reported temperature. Derating of MTBF and AFR will occur above these parameters, up to 550TB/year and 60°C (device reported temperature). MTBF and AFR ratings do not predict an individual drive's reliability and do not constitute a warranty.

Unlock the Power of Your Data

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