

## Features

- Up to 102 Ultrastar HDDs (SAS or SATA)
- Up to 3.26PB<sup>1</sup> of raw storage<sup>2</sup> in 4U
- Up to 4 units may be daisy-chained for a total raw capacity of 13.04PB
- Patented IsoVibe technology ensures maximum performance even in heavy workloads
- Improved cooling from innovative ArcticFlow technology
- Together, IsoVibe and ArcticFlow contribute to a 62% reduction in drive returns<sup>3</sup>
- Choose dual-port SAS for high availability or single-port SATA for lower cost
- Up to 12 x 24Gb/s SAS-4 host connections
- Enterprise-grade redundant and hot-swappable drives, PSUs, IO Modules, HEMs, and fans
- Rack-mounted top cover for quick and easy service

## Ultrastar® Data102 3000 Hybrid Storage Platform

### The Next Generation Platform for Software-Defined Storage

#### Designed for High Density and Flexibility

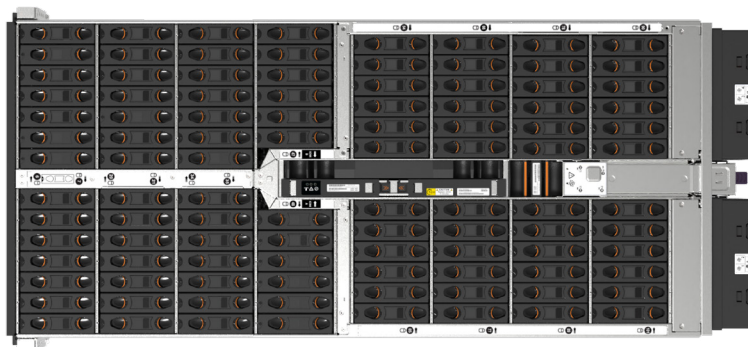
The Ultrastar Data102 3000 Hybrid Storage Platform redefines what's possible in modern storage infrastructure. As a foundational building block for disaggregated and software-defined storage (SDS) architectures, it delivers massive capacity without sacrificing flexibility — empowering organizations to strike the right balance between performance and cost across any workloads. Packed with up to 3.26PB of raw storage in a compact, efficient form factor, the Data102 3000 is purpose-built for the demands of scalable data-intensive environments.

#### The Storage Platform for Cloud, Neo-Cloud, and HPC

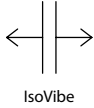
Whether you're scaling a hyperscale cloud, building next-generation AI infrastructure, or powering demanding HPC workloads, the Ultrastar Data102 3000 series delivers. Designed for cloud service providers, emerging neo-cloud and AI infrastructure builders, it provides dense, shared HDD storage optimized for data growth at scale. As AI workloads demand ever-larger training datasets and model repositories, flexible drive configurations let you dial in the right mix of capacity, performance, and cost. With 24Gb/s SAS 4 host connectivity, you get the bandwidth to keep every system fast, responsive, and efficient — no matter how large your environment grows.

#### Innovative Cooling. Improved Reliability.

Not all dense storage platforms are created equal. The Ultrastar Data102 3000 is built to perform reliably at scale. Patented IsoVibe™ vibration isolation technology actively counteracts drive-induced vibration to protect performance under load, while ArcticFlow™ thermal zoning channels airflow precisely through the center of the chassis for targeted, highly effective cooling. Together, these breakthrough technologies drive up to a 62% reduction in HDD returns<sup>3</sup> — meaning fewer failures, lower operational costs, and greater peace of mind. Backed by a five-year limited warranty, the Data102 3000 is a platform built for the long haul.



# Ultrastar Data102 3000 Hybrid Storage Platform



## IsoVibe Patented Vibration Isolation Technology

Precision cuts in the baseboard create a suspension system for the drives within the chassis, isolating them from transmitted vibration. The result is consistent performance maintained across every drive — even when the entire system is working at full capacity.



## Innovative ArcticFlow Thermal Zone Cooling Technology

By introducing cool air directly into the center of the chassis, drives operate at lower and more consistent temperatures than conventional systems. This delivers lower fan speeds, reduced vibration, lower power consumption, quieter operation, and ultimately, higher reliability.



## Western Digital Resource Manager

A GUI-based tool that enables real-time monitoring and management of the platform through a consolidated dashboard displaying the most critical system information. Additional views provide platform configuration, health monitoring, and maintenance capabilities.

## Specifications

<b>Max. Drives</b>	102 x 3.5in drive bays
<b>Drive Interface</b>	12Gb/s SAS 6Gb/s SATA
<b>Available Drive Capacities</b>	HDD up to 26TB CMR or 32TB SMR
<b>Host Interface</b>	Dual redundant HEMs, 6 Mini-SAS HD ports per HEM
<b>Weight</b>	Product without drives: 47kg / 103.6lbs Product with 102 HDDs: 121.02kg / 266.8lbs
<b>LED Indicators</b>	Front/Rear: Power, ID, Fault Drive: Activity, Fault
<b>Physical Dimensions</b>	Height: 174.5 mm / 6.87 in Width: 447.0 mm / 17.60 in Depth: 1044.2 mm / 41.11 in Depth with CMA: 1191 mm / 46.89 in
<b>Management</b>	SCSI Enclosure Services Redfish (out of band, via RJ45)
<b>Power</b>	Titanium: Dual 200-240V AC, 1600W
<b>Cooling</b>	4 main enclosure fans front-to-rear system cooling with zero-loss backflow prevention 1 IO module fan Dual PSUs with built-in fans
<b>Environmental</b>	Operating Temperature: 5°C to 35°C Non-op Temperature: -40 to 70°C Humidity: 5 to 85% relative humidity Operating Altitude: -300m to 3048m / -984 ft to 10,000 ft Sound Power: < 7.2Bels @ 23±2°C
<b>Serviceability</b>	Cable-free hot-swappable IOM, HEM, power supply, fans, and drives
<b>Warranty<sup>4</sup></b>	5 Year Limited Warranty

<sup>1</sup> One terabyte (TB) is equal to one trillion bytes and one petabyte (PB) is equal to 1,000 TB. Actual user capacity may be less due to operating environment.

<sup>2</sup> Ultrastar Data102 Hybrid Storage Platform total raw capacity of 2.65PB using 26TB CMR HDDs and 3.26PB using 32TB SMR HDDs.

<sup>3</sup> Based on observed and projected drive return data compared to generation without features. Does not change product specifications or constitute a warranty.

<sup>4</sup> Please see product warranty terms and conditions for details at: [https://documents.westerndigital.com/content/dam/doc-library/en\\_us/assets/public/western-digital/collateral/warranty/warranty-western-digital-platform-products.pdf](https://documents.westerndigital.com/content/dam/doc-library/en_us/assets/public/western-digital/collateral/warranty/warranty-western-digital-platform-products.pdf).

## Certifications & Standards

<b>Country Certifications</b>	Australia/New Zealand (RCM)   European Union (CE)   Great Britain (UKCA)   Israel (SII)   Japan (VCCI)   Korea (KC)   North America: Canada, USA (NRTL)   South Africa (LoA)   Taiwan (BSMI)
<b>Safety</b>	CAN/CSA-C22.2 No. 62368-1, Second Edition   CE – Low Voltage Directive   CNS 15598-1   IEC 62368-1   IS 13252-2010
<b>EMC Class A Emissions</b>	AS/NZS CISPR 32   CNS 15936-1   CE – EMC Directive 2014/30/EU   CISPR 32 Edition 6   FCC CFR 47 Part 15, Subpart B   ICES-003, Issue 7   IEC 55032   KS C 9832   TR CU 020/2011   VCCI V-3
<b>EMC Class A Immunity</b>	IEC 55035   IEC 61000-3-2 Harmonic Current Emissions   IEC 61000-4-2 ESD   IEC 61000-4-3 Radiated Immunity   IEC 61000-4-6 RF Common Mode   IEC 61000-4-8 Power Frequency Magnetic Field   KS C 9835
<b>Eco-Design</b>	Commission Regulation (EU) 2019/424
<b>Environmental Standards</b>	EU RoHS Directive (2011/65/EU)   EU WEEE Directive (2012/19/EU)   EU REACH Regulation (EC) No 1907/2006   EU POPs Regulation (EU) 2019/1021

## How to Read Model Number

**Example:** Ultrastar Data102 **3234** 2652TB, 3rd Generation with Dual IOM SAS, 6x HEM 24G, and 26TB CMR

1st digit = JBOD Generation 3: Ultrastar Data102 3rd Generation	2nd digit = Interface 1: Single IOM SATA 2: Dual IOM SAS
3rd digit = Connectivity 3: 6x HEM 24G (Microchip)	4th digit = HDD Generation 1: Ultrastar DC HC580 CMR 2: Ultrastar DC HC680 SMR 3: Ultrastar DC HC555 CMR 4: Ultrastar DC HC590 CMR 5: Ultrastar DC HC690 SMR

