



## 68-Bay Hybrid Storage Server

Storage Server for Big Data and Software-Defined Storage

### Designed for High Density and Flexibility

The Western Digital Ultrastar Serv60+8 has dual high-performance Intel® Xeon Scalable Processor-based CPUs to deliver the performance to manage demanding workloads in Software-Defined Storage (SDS) environments. With over 960TB<sup>1</sup> in the enclosure, it delivers high density (up to 240TB per rack unit). With a choice of CPUs, memory and drives, it provides the flexibility to balance performance with cost. Western Digital HelioSeal® HDDs ensure cool running, quiet operation and high reliability and the SSDs provide a fast data tier for additional performance.

### Features

- High-performance Intel Xeon® Scalable Processor-based server
- Choice of CPUs to match workloads
- Up to 60 (SAS or SATA) HDDs plus up to 8 SAS or SATA SSDs
- Hybrid support for up to 32 SSDs to create a data acceleration tier
- Innovative IsoVibe™ technology ensures maximum performance even in heavy workloads
- Enterprise-grade redundant and hot-swappable PSUs and fans
- Improved cooling from innovative ArcticFlow™ technology
- Rack-mounted top cover for quick and easy service
- Over 960TB raw capacity with 14TB HDDs and 15.36TB SSDs

### Building on Western Digital's 40-plus Years of HDD Design Experience

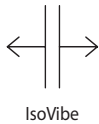
Developing storage devices and platforms side-by-side, enables the benefits of Silicon to Systems Design. The first of these innovative technologies are IsoVibe and ArcticFlow. IsoVibe reduces performance degradation in traditional platforms due to induced vibration from busy adjacent drives. ArcticFlow overcomes the cooling issues in a conventional dense chassis by introducing cool air into the middle of the platform. Both these technologies contribute to long-term reliability enabling a five-year limited warranty on the entire platform.

### Designed for Big Data and Software-Defined Storage:

The new, high-capacity storage server addresses the demanding storage needs of large enterprise customers, OEMs, Cloud Service Providers and resellers/integrators that require dense, shared HDD or hybrid storage with compute included.



<sup>1</sup>One MB is equal to one million bytes, one GB is equal to one billion bytes and one TB equals 1,000GB (one trillion bytes) when referring to storage capacity. Accessible capacity will vary from the stated capacity due to formatting and partitioning of the drives, the operating system and other factors.



IsoVibe

## IsoVibe Vibration Isolation Technology

Precise cuts in the baseboard provide a suspension for the drives in the chassis, isolating them from transmitted vibration. The result is that consistent performance is maintained, even when all the drives are working hard.



ArcticFlow

## ArcticFlow Thermal Zone Cooling Technology

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

<b>Max. Drives</b>	<ul style="list-style-type: none"> <li>• 60 3.5" SAS or SATA HDD slots of which up to 24 may be used for 2.5" SAS or SATA SSDs</li> <li>• Additionally, up to 8 SAS or SATA SSDs in center channel bays</li> </ul>
<b>Available CPU Choices</b>	<ul style="list-style-type: none"> <li>• Up to two Intel Xeon Scalable processors, up to 24 cores per processor (165W TDP)</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• Up to 2TB 3DS LRDIMM or RDIMM (16x DDR4-2666Mhz DIMM Slots)</li> </ul>
<b>Expansion</b>	<ul style="list-style-type: none"> <li>• 6 PCIe Gen3 Slots</li> <li>• 1 PCIe Gen3 x8 slot is occupied by the storage controller for the 60 bays</li> </ul>
<b>Networking</b>	<ul style="list-style-type: none"> <li>• Dual 10GbaseT Ethernet (RJ45)</li> </ul>
<b>I/O</b>	<ul style="list-style-type: none"> <li>• 2 USB 2.0</li> <li>• 2 USB 3.0</li> <li>• 1 VGA, DB15</li> <li>• 1 RJ45 BMC / Management</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• IPMI 2.0 system management</li> <li>• Redfish (out of band via RJ45)</li> </ul>
<b>Physical Dimensions</b>	<ul style="list-style-type: none"> <li>• Height: 175mm (6.89")</li> <li>• Width: 447mm (17.61")</li> <li>• Depth: 1099mm (43.27")</li> <li>• Depth in Rack: Max of 1177mm (46.34") w/CMA</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• Product without drives: 40.82kg (90lbs)</li> <li>• Product fully populated: 95.25kg (210lbs)</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>• 2000W AC, Redundant Power Supplies, (80+ Platinum)</li> <li>• 200-240V AC input, auto ranging, 50-60Hz</li> </ul>
<b>Cooling</b>	<ul style="list-style-type: none"> <li>• 6 high efficient fans, front-to-rear system cooling with zero-loss backflow prevention</li> </ul>
<b>LED Indicators</b>	<ul style="list-style-type: none"> <li>• Front and Back Panel: Power, ID, Fault</li> <li>• Fan and Drive: Fault</li> <li>• IO Module: Power, ID, Fault</li> </ul>
<b>Serviceability</b>	<ul style="list-style-type: none"> <li>• Hot-swappable power supplies, fans and drive modules</li> </ul>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: 5° to 35°C</li> <li>• Non-op Temperature: -40° to 70°C</li> <li>• Humidity: 8% to 90% relative humidity</li> <li>• Non-op humidity: 8% to 90% relative humidity</li> </ul>
<b>Drive support</b>	<ul style="list-style-type: none"> <li>• HDD-6TB to 14TB</li> <li>• SSD-400GB to 15.36TB (SAS or SATA)</li> <li>• M.2 boot drive 120GB to 2TB (SATA/PCIe)</li> </ul>

## Western Digital

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