IntelliFlash HD-series is a storage platform that delivers performance and economics. It combines Western Digital's IntelliFlash Operating Environment with high density flash enabling enterprises to rapidly move to an all-flash data center.

Hyper-Consolidate your Data Center

At the core of IntelliFlash HD-series arrays is the same software architecture that powers Western Digital's award-winning portfolio of NVMe™-flash and hybrid flash arrays. The IntelliFlash platform brings several years of innovation in flash management, data persistence, and data management, enabling IntelliFlash HD-series to deliver unprecedented levels of consolidation, simplicity, and economics. Enterprises that have deployed multiple IntelliFlash arrays to run any and all of their application workloads are able to consolidate them onto the same array to achieve better economics at scale.

Features

- Scalable Architecture – Dual active controller scale-up architecture supports easy capacity and performance growth
- High Capacity and Density – Over 5PB‡ of effective capacity in a compact 10U footprint
- Sustained Performance – High throughput and low latency for mixed workload consolidation
- Unified Storage – Native block (FC, iSCSI) and file (NFS, CIFS, SMB3) access that can be run concurrently
- Comprehensive Data Services – Inline deduplication and compression, snapshots, read/write clones, and thin provisioning
- Affordable Disaster Recovery – Replicate between NVMe-flash, all-flash, and hybrid flash configurations
- VMware® Support – Includes a VMware vCenter® plug-in and integration with VMware SRM and VAAI
- Simplified Management – Single UI management for all operations

Benefits

- One Flash Platform for ANY Workload – An industry-leading all-flash array that enables you to transform to an all-flash datacenter.
- The Performance you want – IntelliFlash HD-series arrays can handle your most intense workloads.
- The Capacity you need – Performance means nothing if you don't have the space to use it. IntelliFlash HD-series delivers petabytes of capacity in a single rack.
- Unmatched Economics – With industry-leading densities, you will find the perfect balance of performance and economics.
- Simple Scaling – As needs change, you can add all-flash expansion shelves.
- Unmatched Compatability – With multiple certified configurations with Oracle, Microsoft, VMware and many others, IntelliFlash HD-series is ready for your IT environment.
- Reduced OpEx – With a platform that is energy efficient, features inline data reduction, and is easy to maintain, you can save on power, cooling, and labor.

IntelliFlash **HD-SERIES STORAGE ARRAYS**

Specifications

Models	HD2040–100	HD2040–400	HD2040–700	HD2080–200	HD2080–800	HD2080–1400
Flash as % of Total Usable Capacity	100% Flash					
Controllers	Dual-Active Controller Architecture					
Memory (GB)	464					
Storage Capacity						
Flash Memory (TB) †	92	369	645	184	737	1290
Effective All-Flash Capacity (TB) ‡	346	1459	2611	691	2918	5222
Physical						
Form Factor (RU)	2U	6U	10U	2U	6U	10U
Weight (Lbs)	80	200	320	80	200	320
Power (Watts)	495	1305	2115	495	1305	2155
Software Services						
Protocols	SAN Protocols (iSCSI, Fibre Channel), NAS Protocols (NFS, CIFS, SMB 3.0)					
Data Services	Inline deduplication and compression, space efficient thin provisioning, snapshots and clones, remote replication, application-aware provisioning					
Management	Web browser, plug-ins for VMware vCenter and Microsoft System Center VMManager, SSH, IP-KVM, SNMP					
Data Security	Inline 256-bit AES encryption for data at rest					
Redundancy	No single point of failure, Active/Active high availability architecture, dual ported storage media					
Network Connectivity						
Lights-out Management Ports	2 × 1 Gbps KVM over IP					
Storage Connectivity	16 and 8 Gbps Fibre Channel; 40GE, 10GE Copper/Fibre, and 1 Gbps Ethernet					
Warranty						
Basic	24×7 support via email and phone, next business day hardware replacement for defective parts and software updates for the first 90 days.					
Optional	Premier and Lifetime Storage support. Visit westerndigital.com/intelliflash					

† Values indicated are RAW capacity.
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 hard drives, the operating system and other factors.
‡ Effective capacity assumes capacity after data protection, metadata overhead, and includes the benefit of data reduction with inline deduplication and compression.
Data Reduction is calculated at 5-to-1. Where a range is present, the values are Min – Max.

Western Digital.