Dense Flash Storage Systems - The Workhorse for Your Applications

Flash storage has the power to fundamentally transform how you do business. But most solutions force you to compromise on performance, price, or features. The Tintri IntelliFlash HD-Series intelligent infrastructure is a fourth-generation storage solution that delivers an exceptional user experience through automation, analytic insights, and a variety of time-saving management features to drive your most valuable workloads in today's data centers.

At the core of IntelliFlash HD-Series systems is the same software architecture that powers Tintri's award-winning portfolio of N-Series and T-Series storage systems. The IntelliFlash platform delivers proven innovation in flash management, data persistence, and data management, enabling the HD-Series to deliver unprecedented levels of consolidation, simplicity, and economics. Enterprises that have deployed multiple storage systems to support their application workloads can now consolidate them onto a single system to achieve better economics at scale.

Consolidate your enterprise applications onto a scalable, performant, and easy-to-use intelligent infrastructure. When the data that drives your line-of-business applications resides on IntelliFlash HD-Series, your operations are dramatically simplified. Go from pilot to production with a few clicks of a button. Enjoy a simplified administrative experience so you can focus on your business. Experience Different!

Features

- Cloud-Based Intelligent Analytics – Visibility across all IntelliFlash systems, with insights that keep infrastructure operating at peak efficiency and availability

- Unified Storage - Concurrent native block (FC, iSCSI) and file (NFS, SMB3) access

- Live Dataset Migration – Seamless live migration of iSCSI/FC LUNs across IntelliFlash systems

- IntelliFlash S3 Cloud Connector – Hybrid cloud capabilities, enabling connectivity to public cloud or any S3-compatible object storage

- Sustained Performance – High throughput at low latency for mixed workload consolidation

- Comprehensive Data Services – Inline deduplication and compression, snapshots, read/write clones, and thin provisioning

- Affordable Disaster Recovery – Replicate between NVMe-flash, SAS-flash, and hybrid systems

- VMware® Support – vCenter® plug-in and integration with VMware SRM and VAAI

- Microsoft Hyper-V Support – PowerShell Toolkit plus SMB3 Enhancements for Hyper-V

Benefits

- Simplified Management and Analytics – Common GUI management for all IntelliFlash systems

- High Capacity and Scalability – Over 5PB‡ of effective all-flash or hybrid expansion capacity in a compact 10U footprint

- Unified Storage – Native concurrent block (FC, iSCSI) and file (NFS, SMB3) access

- Multiple Mixed Workloads – Support bare metal applications along with certified configurations for Oracle, Microsoft, VMware and many other environments.

- Hybrid Cloud – Back up local snapshots to the cloud or quickly migrate volumes for bring-up on any S3-compliant object storage.

- Performance You Want – IntelliFlash HD-series confidently handles critical enterprise workloads.

- Capacity You Need – Without compromising on performance.

- Reduced OPEX – With a platform that is energy efficient, offers inline data reduction, and is easy to maintain, so you can save on power, cooling, and labor.

Tintri
Intelligent Infrastructure
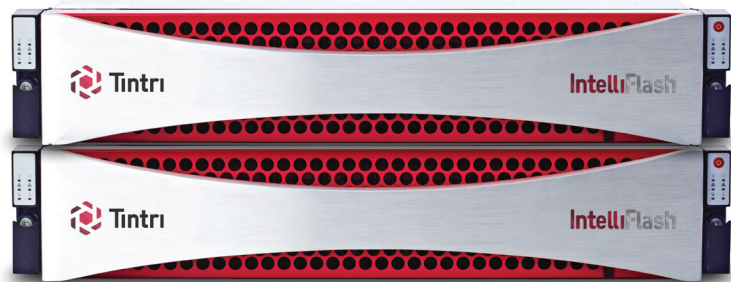
IntelliFlash High-Density Flash Storage Systems

Models	HD2040-100	HD2080-200	HD2160-400
Storage Capacity			
All-Flash RAW Capacity (TB)†	92 to 645	184 to 1290	368 to 2580
All-Flash Effective Capacity (TB)‡	339 to 2511	662 to 5022	1325 to 10044
Storage Controllers	Dual Controller (active/active), fully redundant architecture		
Ethernet Options	2x 10GbE, 4x 10GbE, 2x 40GbE		
Fibre Channel Options	2x 8Gbps, 2x 16Gbps, 4x 16Gbps		
Network Admin Ports	2x 1GbE, 1x 1GbE (IPMI)		
Physical Specifications			
Controller Form Factor	2RU with 24 SAS SDD slots		
Physical Dimensions (HxWxD)	3.5" x 17.2" x 25.25" (89mm x 437mm x 642mm)		
Weight	82lbs (37kg)		
Typical Power Usage (Watt)	495W (1690BTU/hr)		
Environmental Specifications	Operating temperature: 10°C to 35°C (50°F to 95°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 8% to 90% (non-condensing) Non-operating relative humidity: 5% to 95% (non-condensing)		
Software Services			
Block and File Protocols	SAN protocols (iSCSI, Fibre Channel), NAS protocols (NFS, SMB)		
Capabilities	IntelliFlash Operating Environment: Real-time deduplication and compression, snapshots and clones, space efficient thin provisioning, remote replication, S3 Cloud Connector, Live Dataset Migration, data-at-rest and data-in-flight encryption		
Management	IntelliFlash web UI, configuration wizard, Analytics for IntelliFlash, VMware plug-in for vCenter and support for vCenter Linked Mode, RBAC, SRA and VAAI NAS; Microsoft SCVMM/SMI-S, IP-KVM, SNMP, PowerShell Toolkit		
Hardware Availability	Redundant storage controllers, fans, power supplies, and network ports; removable SSDs, SAS expansion		
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	Standard and Premier Service. Visit tintri.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 dual-parity, data protection, and metadata overhead, and includes the benefit of data reduction with inline deduplication and compression. Data Reduction is calculated based on 80% efficiency. This efficiency can differ based on workload and or expansion shelf configuration. Where a range is present, the values are Min - Max.

Max All Flash effective capacity calculated based on the following expansion units attachments: HD2160-400 + 6x FE-400, HD2080-200 + 6x FE-200, HD2040-100 + 6x FE-100

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