

All-Flash and Hybrid-Flash in One System

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 H-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.

The IntelliFlash H-Series hybrid flash systems combine the performance of NVMe with the economics of HDDs for a full-service intelligent storage infrastructure that's easy to manage and delivers exceptional value. H-Series systems enable multi-petabyte, multiprotocol environments that support virtualized and non-virtualized SAN and NAS workloads. These systems deliver an ideal combination of performance and scalability for enterprise end-user file shares and AI, analytics and HPC workloads. The H-Series enables concurrent support for SAN and NAS protocols on a single system for cost-efficient workload consolidation, while incorporating powerful analytics software for faster data insights. These enterprise-grade systems also enable large scale file services without the performance degradation experienced when using other NAS systems.

Features

- Unified Storage – Native concurrent block (FC, iSCSI) and file (NFS, SMB3) access
- Sustained Performance – High throughput at low latency for mixed workloads
- Cloud-Based Intelligent Analytics – Visibility across all IntelliFlash systems, with insights that keep infrastructure operating at peak efficiency and availability
- 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
- 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
- Synchronous Replication - Provides continuous business continuity and seamless data mobility between any IntelliFlash all-flash or hybrid systems located in different data centers
- VMware® Support – vCenter® plug-in and integration with VMware SRM and VAAI NAS
- Microsoft Hyper-V Support – PowerShell Toolkit plus SMB3 Enhancements for Hyper-V

Benefits

- Maximizes ROI by Supporting Multiple Workloads - Mix bare metal applications along with certified configurations for Oracle, Microsoft, VMware and many other environments.
- Large-Scale File Services – Enterprise grade NAS functionality for both virtualized and non-virtualized environments
- Simplified Management and Analytics – Common GUI across all IntelliFlash systems
- High Capacity and Scalability – Over 25PB+ of effective hybrid flash capacity in a compact 18RU 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 the public cloud or any S3-compliant object storage.
- Scalable Hybrid Performance - Multi-petabyte scalability without performance degradation makes IntelliFlash H-Series an ideal NAS platform for enterprise AI and analytics workloads.
- 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

H-Series: NVMe-Accelerated Hybrid Systems



- NVMe flash-based storage controller, designed to deliver consistent performance for mixed workloads
- Application-aware, simple, and flexible storage management bolstered by analytics and environmentwide insight
- Multi-parity RAID protection options for maximum resilience

H-Series: Performance at Scale for NAS Workloads



- Leverage NVMe flash to boost performance with an optimized flash-to-disk ratio
- Modular scalability with high-capacity expansion shelves
- Native data reduction boosts economics for secondary workloads
- Application-aware and easy-to-manage

Tintri IntelliFlash Hybrid H-Series Storage Systems

Model	H6200
Storage Capacity	
NVMe RAW Capacity (TB) ^a	46 to 368
HDD RAW Capacity (TB) ^a	720 to 6480
Hybrid Effective Capacity (TB) ^b	2880 to 25920
Storage Controllers	Dual Controller (active/active), fully redundant architecture
Ethernet Data I/O Ports	8x 40/100GbE, or 8x 10/25GbE
Fibre Channel Data I/O Ports	8x 16 Gbps Fibre Channel
Network Admin Ports	2x 10GbE, 1x 1GbE (IPMI)
Controller Form Factor	2RU (24x NVMe SSDs)
Controller Physical Dimensions	3.45"(H) x 17.58" (W) 33.5" (D) (87.6mm (H) x 446.4mm (W) x 850mm (D))
Weight	105lbs (47.63kg)
Environmental Specifications	Operating temperature: 10°C to 25°C (50°F to 77°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 20% to 90% (non-condensing) Non-operating relative humidity: 5% to 95% (non-condensing)
Expansion Shelves	
Expansion Form Factor	4RU (90x SAS HDDs) per expansion shelf
Expansion Shelf Physical Dimensions	6.9"(H) x 17.56" (W) 42.52" (D) (175.3mm (H) x 446mm (W) x 1080mm (D))
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, synchronous replication, full featured file services, 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 and HDDs, SAS expansion
Warranty	
Basic	24x7 support via email and phone, next business day hardware replacement for defective parts and software updates for the first 90 days.
Optional	Gold and Platinum Services. Visit Tintri.com

^a 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

^b 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 4:1 ratio. This efficiency can differ based on workload and or expansion shelf configuration. Where a range is present, the values are Min - Max.

^c Expected to be supported 2nd half of CY2021