NVMe™-Flash Storage Systems – Maximum Performance, Feature Rich

NVMe-flash storage has exceptional performance that can fundamentally transform how you do business. But most solutions force you to compromise on performance, price, or features. The Tintri IntelliFlash N-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 N-Series systems is the same software architecture that powers Tintri's award-winning portfolio of HD-Series and T-Series storage systems. The IntelliFlash platform delivers proven innovation in flash management, data persistence, and data management, enabling the N-Series to deliver unprecedented levels of consolidation, simplicity, and economics. Enterprises that need NVMe performance to accelerate their most demanding workloads can now access data quickly and with the lowest latencies to improve business insights and make decisions faster.

Your most demanding workloads deserve uncompromised performance especially when they are key to your business success. Customers have deployed N-Series to accelerate high-performance databases, critical business applications, fast-edge analytics, and large-scale virtualized servers. Exceptional performance at low latency, flexibility at scale, and comprehensive data services make IntelliFlash N-Series the choice for any performance-sensitive workload. Experience Different!

Features

- Exceptional Performance – IntelliFlash N-Series confidently handles performance-sensitive workloads.

- 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

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

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

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

- 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 expansion capacity in a compact 14U footprint

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

- 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.

- 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 NVMe™-Flash Storage Systems

Models	N5100-Series	N5200-Series	N5800-Series
Storage Capacity			
NVMe Flash Capacity (TB) †	46 to 92	23 to 184	19 to 154
Expansion Flash RAW Capacity (TB) †	Up to 276	Up to 1105	Up to 2212
All-Flash Effective Capacity (TB) ‡	Up to 1395	Up to 5022	Up to 9270
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 10GbE, 1x 1GbE (IPMI)		
Physical Specificatons			
Controller Form Factor	2RU with 24 NVMe SSD slots		
Physical Dimensions (HxWxD)	3.5" x 17.2" x 24.75" (89mm x 437mm x 628mm)		
Weight	67lbs (30.4kg) (with 24 NVMe drives)		
Typical Power Usage (Watt)	800W (2730BTU/hr)	900W (3070BTU/hr)	1000W (3412BTU/hr)
Environmental Specifications	Operating temperature: 10°C to 35°C (50°F ~ 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-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 NVMe SSDs, 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	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.

N5800 supports a max of 6x 2U, FE-400 All-Flash shelves.

N5200 supports a max of 3x 2U FE-400 All-Flash or 6x 2U FE-200 shelves.

N5100 supports a max of 3x 2U, FE-100 All-Flash shelves.

N5100, N5200, N5800 can support max 6x 3U Hybrid shelves.