

IntelliFlash

Product Specifications



Tintri IntelliFlash N-Series NVMe™ Storage Systems

Models	N6100	N6200
Storage Capacity		
NVMe Flash Capacity (TB) †	46 to 184	46 to 368
NVMe Effective Capacity (TB) ‡	Up to 920	Up to 1840
Storage Controllers	Dual Controller (active/active), fully redundant architecture	
Ethernet Data I/O Ports	Up to 8x 40/100GbE, or 8x 10/25GbE	
Fibre Channel Data I/O Ports	Up to 8x 16 Gbps Fibre Channel	
Network Admin Ports	4x 10GbE, 2x 1GbE (IPMI)	
Physical Specifications		
Controller Form Factor	2RU with 24 NVMe SSD slots	
Physical Dimensions (HxWxD)	3.4" x 17.6" x 33.5" (87.6mm x 446.4 mm x 850mm)	
Weight (Estimated)	80lbs (36.20kg) (chassis only) 91lbs (41.18kg) (fully populated with 24x SSDs)	
Typical Power Usage (Watt)	800W (2730BTU/hr)	900W (3070BTU/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, 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 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 tintri.com/company/support/intelliflash-support ddn.com/support/support-plans	

† 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 includes the benefit of data reduction with inline deduplication and compression. Data Reduction is calculated based on a 5:1 efficiency ratio. This efficiency ratio can vary based on workload type. Where a range is present, the values are Min - Max.

Tintri IntelliFlash H-Series Hybrid Storage Systems

Model	H6200
Storage Capacity	
NVMe RAW Capacity (TB) ^a	46 to 368
HDD RAW Capacity (TB) ^a	360 to 5040
Hybrid Effective Capacity (TB) ^b	1440 to 20160
Storage Controllers	Dual Controller (active/active), fully redundant architecture
Ethernet Data I/O Ports	Up to 8x 40/100GbE or 8x 10/25GbE
Fibre Channel Data I/O Ports	Up to 8x 16 Gbps Fibre Channel
Network Admin Ports	4x 10GbE, 2x 1GbE (IPMI)
Controller Form Factor	2RU (24x NVMe SSDs)
Controller Physical Dimensions	3.4" x 17.6" x 33.5" (87.6mm x 446.4 mm x 850mm)
Weight (Estimated)	Controller: 80lbs (36.20kg) (chassis only) and 91lbs (41.18kg) (fully populated with 24x SSDs) 90-bay expansion shelf: 91lbs (41.18kg) (chassis only) and 233 lbs (105.78kg) (fully populated with 90x HDDs)
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 Supported per System	4
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	Standard and Premier Service tintri.com/company/support/intelliflash-support ddn.com/support/support-plans

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^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.

Tintri IntelliFlash H-Series Expansion Shelves

Model	H6200	
	HE-720	HE-1260
Shelf Type	90-Bay SAS HDD Expansion	
Storage Capacity		
Expansion Shelves Supported per System	4	
Supported HDD Media Size (TB)	8	14
Raw Capacity (TB) ^a	360 to 720	630 to 1260
Effective Capacity (TB) ^b	2880	5040
Physical Specifications		
Expansion Shelf Form Factor (EIA Rack Units)	4RU	
Physical Dimensions	6.9"(H) x 17.56" (W) 42.52" (D) (175.3mm (H) x 446mm (W) x 1080mm (D))	
Weight (Estimated)	90-bay expansion shelf: 91lbs (41.18kg) (chassis only) and 233 lbs (105.78kg) (fully populated with 90x HDDs)	
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: 20% to 90% (non-condensing) Non-operating relative humidity: 5% to 95% (non-condensing)	

^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.

Tintri IntelliFlash T-Series Hybrid Storage Systems

Model	Hybrid Storage System
	T4200
Storage Capacity	
All-Flash RAW Capacity (TB) [†]	N/A
All-Flash Effective Capacity (TB) [‡]	N/A
Flash as % of Total Usable Capacity	20%
Hybrid Flash RAW Capacity (TB) [†]	5.8 to 40.4
HDD RAW Capacity (TB) [†]	52 to 364
Hybrid Effective Capacity (TB) [‡]	156 to 1387
Storage Controllers	Dual Controller (active/active), fully redundant architecture
Ethernet Data I/O Ports	24x 10GbE or 12x 40GbE
Fibre Channel Data I/O Ports	12x 8G or 16x 16G FC
Network Admin Ports	2x 1GbE, 1x 1GbE (IPMI)
Physical Specifications	
Controller Form Factor	3RU
Physical Dimensions (HxWxD)	5.25" x 17.2" x 25.25" (134mm x 437mm x 642mm)
Weight	105lbs (47.63kg)
Typical Power Usage (Watt)	441W (1505BTU/hr)
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)
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	Standard and Premier Service tintri.com/company/support/intelliflash-support ddn.com/support/support-plans

[†] 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.

Tintri IntelliFlash T-Series Expansion Shelves

Models	HE-50
Shelf Type	Hybrid Flash
Storage Capacity	
All-Flash Raw Capacity (TB) [†]	5.6
HDD Raw Capacity (TB) [†]	52
All-Flash Effective Capacity (TB) [‡]	N/A
Physical Specifications	
Expansion Shelf Form Factor (EIA Rack Units)	3RU
Physical Dimensions (HxWxD)	5.25" x 17.2" x 25.25" (134mm x 437mm x 642mm)
Typical Power Usage (Watt)	196W (668BTU/hr)
Weight	105lbs (47.6kg)
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: 20% to 90% (non-condensing) Non-operating relative humidity: 5% to 95% (non-condensing)

[†]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.

Min All Flash RAW capacity based on half-populated expansion shelf: FE-100, FE-200, FE-400.

For more information on how DDN and Tintri IntelliFlash systems can turbo-charge your business success with simplified Intelligent Infrastructure, visit www.ddn.com/intelliflash or www.tintri.com/intelliflash.



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