



Tintr

IntelliFlash™ Product Matrix

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 Fibre Channel		
Network Admin Ports	2x 10GbE, 1x 1GbE (IPMI)		
Physical Specifications			
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 ~ 35°C (50°F ~ 95°F) Non-operating temperature: -40°C to 60°C (-40°F to 140°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.

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 24.75" (89mm x 437mm x 628mm)		
Weight	82lbs (37kg) to 562lbs (255kg)		
Typical Power Usage (Watt)	495W (1690BTU/hr) to 1803W (6152BTU/hr)		
Environmental Specifications	Operating temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating temperature: -40°C to 60°C (-40°F to 140°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	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.

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

IntelliFlash All-Flash Storage Systems

Models	T4600	T4700	T4800
Storage Capacity			
All-Flash RAW Capacity (TB) [†]	11.5	23	46
All-Flash Effective Capacity (TB) [‡]	41	83	166
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 Fibre Channel		
Network Admin Ports	2x 10GbE, 1x 1GbE (IPMI)		
Physical Specifications			
Controller Form Factor	2RU		
Physical Dimensions (HxWxD)	3.5" x 17.2" x 24.75" (89mm x 437mm x 628mm)		
Weight	82lbs (37kg)		
Typical Power Usage (Watt)	495W (1690BTU/hr)		
Environmental Specifications	Operating temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating temperature: -40°C to 60°C (-40°F to 140°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	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.

IntelliFlash Hybrid Storage Systems

Models	T4100	T4200	T4630	T4730	T4760	T4860
Storage Capacity						
Flash as % of Total Usable Capacity	10%	20%	30%	30%	60%	60%
Hybrid Flash RAW Capacity (TB) [†]	1.4 to 10	6 to 40	18	36	25.5	52
HDD RAW Capacity (TB) [†]	26 to 182	52 to 364	52	104	26	52
Hybrid Effective Capacity (TB) [‡]	78 to 693	156 to 1387	202	484	164	329
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	3RU	5RU	8RU	5RU		
Physical Dimensions (HxWxD)	5.25" x 17.2" x 25.25" (134mm x 437mm x 642mm)	8.75" x 17.2" x 24.75" (222mm x 437mm x 628mm)	14" x 17.2" x 24.75" (357mm x 437mm x 628mm)	8.75" x 17.2" x 24.75" (222mm x 437mm x 628mm)		
Weight	80lbs (37kg) to 560lbs (255kg)	187lbs (85kg)	292lbs (132kg)	187lbs (85kg)		
Typical Power Usage (Watt)	423W (1443BTU/hr)	691W (2358BTU/hr)	887W (3026BTU/hr)	691W (2358BTU/hr)		
Environmental Specifications	Operating temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating temperature: -40°C to 60°C (-40°F to 140°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 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. 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.

IntelliFlash Expansion Shelves

Models	HE-25	HE-50	FE-10	FE-25	FE-50	FE-100	FE-200	FE-400
Shelf Type	Hybrid Flash			All-Flash				
Storage Capacity								
All-Flash Raw Capacity (TB) [†]	1.4	5.6	11.5	23	46	92	184	368
HDD Raw Capacity (TB) [†]	26	52	N/A	N/A	N/A	N/A	N/A	N/A
All-Flash Effective Capacity (TB) [‡]	N/A	N/A	272	544	1090	2180	4360	8718
Physical Specifications								
Expansion Shelf Form Factor (EIA Rack Units)	3RU			2RU				
Physical Dimensions (HxWxD)	5.25" x 17.2" x 25.25" (134mm x 437mm x 642mm)			3.5" x 17.2" x 25.25" (89mm x 437mm x 642mm)				
Typical Power Usage (Watt)	196W (668BTU/hr)			218W (744BTU/hr)				
Weight	105lbs (47.6kg)			80lbs (36.3kg) (with 24 drives)				
Environmental Specifications	Operating temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating temperature: -40°C to 60°C (-40°F to 140°F) Operating relative humidity: 8% 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.



@tintri

www.tintri.com

info@tintri.com