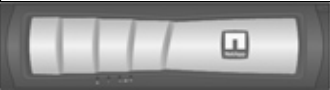


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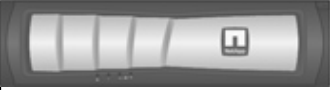
System Maximums and Limits	
Max Raw capacity (HA)	3840 TB
Max Storage Devices (HA)	960 (drives)
Max Nodes per Cluster (NAS / SAN)	Not Supported / Not Supported
Max Aggregate Size 32-bit	16 TiB
Max Aggregate Size 64-bit	240 TiB
Min Root Aggregate Size	Not Supported
Max FabricPool Size	Not Supported
Max FlexVol Size 32-bit	16 TiB
Max FlexVol Size 64-bit	70 TiB
Max Infinite Volume Data Constituent Size	Not Supported
Max FlexGroup Data Constituent Size	Not Supported
Max Volume Count (Per Node)	500
Min Root Volume Size	250 GiB
NetApp Volume Encryption	Not Supported

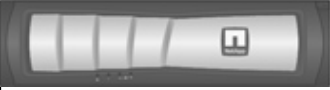
Technical Specifications per HA pair	
Processor	4 x 64-bit 2-core 3.00 Ghz
Memory	40 GB ^[2]
Ethernet Ports	4 x RJ45 (1Gb)
Fibre Channel Ports	4 x SFP (4Gb)
UTA2 Ports	Not Supported
Expansion Slots	4 x PCIe (without IOXM) 12 x PCIe (with IOXM)
SAS Ports	4 x QSFP (6Gb)

Physical Characteristics	
Rack Units	3 (without IOXM) 6 (with IOXM)
Chassis Height	5.12" (13 cm)
Chassis Width with Mounting Flanges	-
Chassis Width without Mounting Flanges	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	23.9" (60.7 cm)
Chassis Depth without Cable Mgmt	-
Chassis Weight - One Controller Module	-
Chassis Weight - Two Controllers Module	79.37 lb (36 kg)
Chassis Weight - Controller + IOXM	74.96 lb (34 kg)

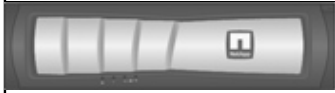
System Clearance Dimensions	
Front Clearance (Cooling)	30.02" (76.2 cm)
Front Clearance (Maintenance)	30.02" (76.2 cm)
Rear Clearance (Cooling)	12.02" (30.5 cm)
Rear Clearance (Maintenance)	30.02" (76.2 cm)

Environmental Requirements	
Operating Temperature Range	50 to 104 deg F 10 to 40 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	20 to 80 %
Storage Relative Humidity	-
Transit Relative Humidity	-
Operating Altitude Range	0.0 to 10000.0 ft 0.0 to 3048.0 m
Storage Altitude Range	0.0 to 40000.0 ft 0.0 to 12192.0 m

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Transit Altitude Range	0 to 39989.8 ft 0 to 12192 m
Acoustic Noise - Sound Power	7.1 bels
Acoustic Noise - Sound Pressure	55.4 dBA
Input Power Voltage	-60 to -40, 100 to 120, 200 to 240
Storage O/S Requirements	
Min ONTAP version	7.3.5, 8.0.1, 8.1, 8.2RC1, 8.3RC1, 9.0RC1, 9.1RC1
Max ONTAP version	7.3.7, 8.0.5, 8.1.4, 8.2.5, 8.3.2, 9.0P4, 9.1P16
System Availability & Support	
Release Date	-
End of Availability (EOA)	08-Nov-2013
End of Support (EOS)	31-Dec-2018
Platform Maximum & Limits	Config: Single Chassis HA Pair
Core Limits	Scope: HA Pair
Maximum number of storage virtual machines (SVMs) - NAS	N/A
Maximum number of LIFs - NAS	N/A
Maximum number of connections - NAS	N/A
Maximum number of flexible volumes - NAS	N/A
Maximum lock manager locked objects (CIFS + NFS)	N/A
NFS Limits	Scope: HA Pair
Maximum number of export policies	N/A
Maximum number of export rules	N/A
Maximum NFSv4 access control entries	N/A
Maximum number of client objects	N/A
Maximum number of pNFS objects	N/A
WAFL Limits	Scope: HA Pair
Maximum size of a 64-bit aggregate	N/A
Maximum size of a 64-bit volume	N/A
Maximum file size in a 64-bit volume	N/A
Maximum number of Volume Snapshot Copies	N/A
Maximum character length for Snapshot copy names	N/A
Maximum number of hard links	N/A
Maximum number of inodes/files	N/A
Maximum number of qtrees	N/A
Maximum number of concurrent Data Motion for Volumes (vol move) operations	N/A
Quality of Service Limits	Scope: HA Pair
Maximum number of policy groups	N/A
Maximum number of QoS user workloads	N/A
Maximum number of nodes participating in QoS	N/A
Maximum number of QoS autovolume workload	N/A

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Maximum number of QoS system workloads	N/A
SAN Limits	Scope: HA Pair
Maximum number of storage virtual machines (SVMs) - SAN	N/A
Maximum number of flexible volumes - SAN	N/A
Maximum number of LUNs	N/A
Maximum number of LUN mappings	N/A
Maximum LUN size	N/A
Maximum FC queue depth available	N/A
Maximum ITNs	N/A
Maximum number of LIFS - iSCSI	N/A
Maximum number of LIFS - FCP	N/A
Maximum number of igroups	N/A
Maximum number of initiators	N/A
Maximum number of portsets	N/A
Maximum number of iSCSI sessions	N/A
NVMe/FC Limits	Scope: HA Pair
Maximum number of storage virtual machines (SVMs) - NVMe/FC	N/A
Maximum number of flexible volumes - NVMe/FC	N/A
Maximum number of namespaces	N/A
Maximum number of subsystems	N/A
Maximum number of subsystem mappings	N/A
Maximum namespace size	N/A
Maximum I/O queue depth available	N/A
Maximum I/O queue count available	N/A
Maximum ITNs - NVMe/FC	N/A
Maximum number of hosts	N/A
Maximum number of LIFS - NVMe/FC	N/A
Maximum number of NVMe/FC controllers	N/A
CIFS Limits	Scope: HA Pair
Maximum number of connected shares	N/A
Maximum number of regular shares	N/A
Maximum number of open files	N/A
Maximum number of local users	N/A
Maximum number of local groups	N/A
Maximum number of local group members	N/A
Data Protection (DP) Limits	Scope: HA Pair
Maximum number of NDMP sessions	N/A
Maximum number of DP mirrors and/or SnapVault® relationships	N/A

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Maximum number of DP mirrors and/or SnapVault® relationships for FabricPool

N/A

Maximum number of load sharing (LS) mirrors

N/A

Maximum number of concurrent SnapMirror® or SnapVault transfers

N/A

Maximum fan-out from source for DP mirror

N/A

Maximum fan-out from source for LS mirror

N/A

Maximum number of clusters that can be peered

N/A

Notes ID	Notes Description
1	Beginning with Data ONTAP 8.1, ESH2 storage I/O modules are no longer supported on DS14mk2 FC disk shelves. Upgrading a system with these modules attached to the shelf results in an unsupported configuration. If even one of these devices is attached to your storage system, you should not upgrade to Data ONTAP 8.1 or later. DS14mk2 FC disk shelves can use the ESH4 storage I/O module. DS14mk2 FC disk shelves using ESH2 storage I/O modules that replace those modules with ESH4 storage I/O modules are supported in Data ONTAP 8.1.
2	NVMEM on FAS/V3270 leverages a portion of the 20GB of controller memory, resulting in 18GB memory for Data ONTAP. Previously published memory capacities for the FAS/V3200 series controllers were based on usable memory estimates and have been changed as of 11/05/2012 to represent the physical memory in the controller.