

Specifications per controller unless otherwise stated	FAS2240-2	FAS2240-4	FAS3040	FAS3070
				
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Max Raw Capacity (HA)	381.6 TB	432 TB	1008 TB	1512 TB
Max Storage Devices (HA)	144 (disks)	144 (disks)	336 (disks)	504 (disks)
Max DS2246 Shelves (HA)	5	5	14	21
Max DS4243 Shelves (HA)	5	5	14	21
Max DS4246 Shelves (HA)	5	5	14	21
Max DS4486 Shelves (HA)	Not Supported	Not Supported	Not Supported	Not Supported
Max DS14-Class Shelves (HA)	6	6	24	36
Max Nodes Per Cluster - NAS ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Max Nodes Per Cluster - SAN ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Aggregate Size 32 bit (TiB)	16 ^[3]	16 ^[3]	16 ^[3]	16 ^[3]
Aggregate Size 64 bit (TiB)	60 ^[4]	60 ^[4]	50 ^[4]	50 ^[4]
Flex Volume Size 32 bit (TiB)	16 ^[5]	16 ^[5]	16 ^[5]	16 ^[5]
Flex Volume Size 64 bit (TiB)	60 ^[6]	60 ^[6]	50 ^[6]	50 ^[6]
Max Infinite Volume Data Constituent Size (TiB)	Not Supported	Not Supported	Not Supported	Not Supported
Max Volume Count (Single)	500	500	500	500
Min Root Volume Size (Single/HA)	159 GB / 159 GB	159 GB / 159 GB	134 GB / 134 GB	205 GB / 205 GB
Chassis Height	3.34" (8.49 cm)	7.01" (17.80 cm)	5.12" (13.00 cm)	5.12" (13.00 cm)
Chassis Width with Mounting Flanges				
Chassis Width without Mounting Flanges	17.61" (44.72 cm)	17.68" (44.90 cm)	17.72" (45.00 cm)	17.72" (45.00 cm)
Chassis Depth with Cable Mgmt	23.13" (58.75 cm)	23.92" (60.76 cm)	23.90" (60.70 cm)	23.90" (60.70 cm)
Chassis Depth without Cable Mgmt	19.03" (48.34 cm)	21.94" (55.74 cm)		
Rack Units (Single/HA)	2 / 2	4 / 4	3 / 6	3 / 6
Chassis Weight – One Controller Module	50.71 lb (23 kg)	102.29 lb (46.4 kg)	67.99 lb (30.84 kg)	67.99 lb (30.84 kg)
Chassis Weight – Two Controllers Modules	56.00 lb (25.4 kg)	107.81 lb (48.9 kg)	-	-
Chassis Weight – Controller + IOXM	-	-	-	-
Front Clearance (Cooling/Maintenance)	22.02" (55.90 cm) 22.02" (55.90 cm)	6.03" (15.30 cm) 22.02" (55.90 cm)	5.99" (15.20 cm) 30.02" (76.20 cm)	5.99" (15.20 cm) 30.02" (76.20 cm)
Rear Clearance (Cooling/Maintenance)	12.02" (30.50 cm) 12.02" (30.50 cm)	12.02" (30.50 cm) 12.02" (30.50 cm)	11.90" (30.20 cm) 36.01" (91.40 cm)	11.90" (30.20 cm) 36.01" (91.40 cm)
Operating Temperature Range	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 149 deg F -40 to 65 deg C	-40 to 149 deg F -40 to 65 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 149 deg F -40 to 65 deg C	-40 to 149 deg F -40 to 65 deg C
Operating Relative Humidity	20 to 80 %	20 to 80 %	20 to 80 %	20 to 80 %
Storage Relative Humidity	5 to 95 %			
Transit Relative Humidity	5 to 95 %			
Operating Altitude	0 to 9997.44 ft 0 to 3048 m	0 to 9997.44 ft 0 to 3048 m	--	--
Storage Altitude	0 to 39989.8 ft 0 to 12192 m	0 to 39989.8 ft 0 to 12192 m		
Transit Altitude	0 to 39989.8 ft 0 to 12192 m	0 to 39989.8 ft 0 to 12192 m		
Acoustic Noise - Sound Power	6.9 bels	6.9 bels	-	-
Acoustic Noise - Sound Pressure	51 dBA	49.6 dBA	49 dBA	49 dBA
Input Power Voltage	100 to 120, 200 to 240	100 to 120, 200 to 240	-60 to -40, 100 to 120, 200 to 240	-60 to -40, 100 to 120, 200 to 240
Processor (Single) ^[2]	1 x 64-bit 2-core with HT 1.73 Ghz	1 x 64-bit 2-core with HT 1.73 Ghz	2 x 64-bit 2.40 Ghz	2 x 64-bit 2-core 3.00 Ghz
Memory (Single) ^[2]	6 GB	6 GB	4 GB	8 GB
NVRAM (Single) ^[2]	786.43 MB (NVMEM)	786.43 MB (NVMEM)	512 MB (Adapter Card)	512 MB (Adapter Card)
Ethernet Ports (Single) ^[2]	4 x RJ45 (1Gbps)	4 x RJ45 (1Gbps)	4 x RJ45 (1Gbps)	4 x RJ45 (1Gbps)
Fibre Channel Ports (Single) ^[2]			4 x SFP (4Gbps)	4 x SFP (4Gbps)
UTA2 Ports (Single) ^[2]	N/A	N/A	N/A	N/A
Expansion Slots (Single) ^[2]	1 x Mezzanine	1 x Mezzanine	4 x PCIe	4 x PCIe
SAS Ports (Single) ^[2]	2 x QSFP (6Gbps)	2 x QSFP (6Gbps)		
Max Back-End FC Loops (HA)	1	1	6	8
Min version of Data ONTAP 7			7.2.1.1	7.2.1

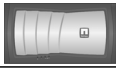
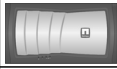
Min version of Data ONTAP 8 (both modes)	8.1	8.1	8.0	8.0
EOA	16-Mar-2015	16-Mar-2015	06-Mar-2009	06-Mar-2009
EOS	30-Mar-2020	30-Mar-2020	06-Apr-2014	06-Apr-2014

Specifications per controller unless otherwise stated	FAS3140	FAS3160	FAS3170	FAS3210
				
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Max Raw Capacity (HA)	1260 TB	2016 TB	2520 TB	720 TB
Max Storage Devices (HA)	420 (disks)	672 (disks)	840 (disks)	240 (disks)
Max DS2246 Shelves (HA)	18	28	35	10
Max DS4243 Shelves (HA)	18	28	35	10
Max DS4246 Shelves (HA)	18	28	35	10
Max DS4486 Shelves (HA)	Not Supported	Not Supported	Not Supported	Not Supported
Max DS14-Class Shelves (HA)	30	48	60	18
Max Nodes Per Cluster - NAS ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Max Nodes Per Cluster - SAN ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Aggregate Size 32 bit (TiB)	16 ^[3]	16 ^[3]	16 ^[3]	16 ^[3]
Aggregate Size 64 bit (TiB)	75 ^[4]	90 ^[4]	105 ^[4]	75 ^[4]
Flex Volume Size 32 bit (TiB)	16 ^[5]	16 ^[5]	16 ^[5]	16 ^[5]
Flex Volume Size 64 bit (TiB)	50 ^[6]	50 ^[6]	70 ^[6]	50 ^[6]
Max Infinite Volume Data Constituent Size (TiB)	Not Supported	Not Supported	Not Supported	Not Supported
Max Volume Count (Single)	500	500	500	500
Min Root Volume Size (Single/HA)	134 GB / 134 GB	232 GB / 232 GB	250 GB / 250 GB	141 GB / 141 GB
Chassis Height	10.75" (27.30 cm)	10.75" (27.30 cm)	10.75" (27.30 cm)	5.12" (13.00 cm)
Chassis Width with Mounting Flanges				
Chassis Width without Mounting Flanges	17.72" (45.00 cm)	17.72" (45.00 cm)	17.72" (45.00 cm)	17.60" (44.70 cm)
Chassis Depth with Cable Mgmt	23.90" (60.70 cm)	23.90" (60.70 cm)	23.90" (60.70 cm)	23.90" (60.70 cm)
Chassis Depth without Cable Mgmt				
Rack Units (Single/HA)	6 / 6	6 / 6	6 / 6	3 / 3
Chassis Weight – One Controller Module	102.01 lb (46.27 kg)	102.01 lb (46.27 kg)	102.01 lb (46.27 kg)	68.34 lb (31 kg)
Chassis Weight – Two Controllers Modules	121.01 lb (54.89 kg)	121.01 lb (54.89 kg)	121.01 lb (54.89 kg)	79.37 lb (36 kg)
Chassis Weight – Controller + IOXM	-	-	-	-
Front Clearance (Cooling/Maintenance)	5.99" (15.20 cm) 30.02" (76.20 cm)	5.99" (15.20 cm) 30.02" (76.20 cm)	5.99" (15.20 cm) 30.02" (76.20 cm)	10.01" (25.40 cm) 30.02" (76.20 cm)
Rear Clearance (Cooling/Maintenance)	12.02" (30.50 cm) 36.01" (91.40 cm)	12.02" (30.50 cm) 36.01" (91.40 cm)	12.02" (30.50 cm) 36.01" (91.40 cm)	12.02" (30.50 cm) 30.02" (76.20 cm)
Operating Temperature Range	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C
Storage Temperature Range	-40 to 149 deg F -40 to 65 deg C	-40 to 149 deg F -40 to 65 deg C	-40 to 149 deg F -40 to 65 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 149 deg F -40 to 65 deg C	-40 to 149 deg F -40 to 65 deg C	-40 to 149 deg F -40 to 65 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	20 to 80 %	20 to 80 %	20 to 80 %	20 to 80 %
Storage Relative Humidity				
Transit Relative Humidity				
Operating Altitude	--	--	--	0 to 9997.44 ft 0 to 3048 m
Storage Altitude				0 to 39989.8 ft 0 to 12192 m
Transit Altitude				0 to 39989.8 ft 0 to 12192 m
Acoustic Noise - Sound Power	-	-	-	7.1 bels
Acoustic Noise - Sound Pressure	61 dBA	61 dBA	61 dBA	55.4 dBA
Input Power Voltage	-60 to -40, 100 to 120, 200 to 240	-60 to -40, 100 to 120, 200 to 240	-60 to -40, 100 to 120, 200 to 240	-60 to -40, 100 to 120, 200 to 240
Processor (Single) ^[2]	1 x 64-bit 2-core 2.40 Ghz	2 x 64-bit 2-core 2.40 Ghz	2 x 64-bit 2-core 2.60 Ghz	1 x 64-bit 2-core 2.33 Ghz
Memory (Single) ^[2]	4 GB	8 GB	16 GB	5 GB ^[7]
NVRAM (Single) ^[2]	512 MB (Onboard)	2 GB (Onboard)	2 GB (Onboard)	512 MB (NVMEM)
Ethernet Ports (Single) ^[2]	2 x RJ45 (1Gbps)	2 x RJ45 (1Gbps)	2 x RJ45 (1Gbps)	2 x RJ45 (1Gbps)
Fibre Channel Ports (Single) ^[2]	4 x SFP (4Gbps)	4 x SFP (4Gbps)	4 x SFP (4Gbps)	2 x SFP (4Gbps)
UTA2 Ports (Single) ^[2]	N/A	N/A	N/A	N/A
Expansion Slots (Single) ^[2]	4 x PCIe	4 x PCIe	4 x PCIe	2 x PCIe
SAS Ports (Single) ^[2]				2 x QSFP (6Gbps)
Max Back-End FC Loops (HA)	6	8	10	5
Min version of Data ONTAP 7	7.2.5	7.2.6	7.2.5	7.3.5

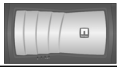
Min version of Data ONTAP 8 (both modes)	8.0	8.0	8.0	8.0.1
EOA	03-Feb-2012	03-Feb-2012	03-Feb-2012	08-Nov-2013
EOS	31-Mar-2017	31-Mar-2017	31-Mar-2017	31-Dec-2018

Specifications per controller unless otherwise stated	FAS3240	FAS3270	FAS6030	FAS6040
				
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Max Raw Capacity (HA)	1800 TB	2880 TB	2520 TB	2520 TB
Max Storage Devices (HA)	600 (disks)	960 (disks)	840 (disks)	840 (disks)
Max DS2246 Shelves (HA)	25	40	35	35
Max DS4243 Shelves (HA)	25	40	35	35
Max DS4246 Shelves (HA)	25	40	35	35
Max DS4486 Shelves (HA)	Not Supported	Not Supported	Not Supported	Not Supported
Max DS14-Class Shelves (HA)	43	69	60	60
Max Nodes Per Cluster - NAS ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Max Nodes Per Cluster - SAN ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Aggregate Size 32 bit (TiB)	16 ^[3]	16 ^[3]	16 ^[3]	16 ^[3]
Aggregate Size 64 bit (TiB)	90 ^[4]	105 ^[4]	105 ^[4]	105 ^[4]
Flex Volume Size 32 bit (TiB)	16 ^[5]	16 ^[5]	16 ^[5]	16 ^[5]
Flex Volume Size 64 bit (TiB)	50 ^[6]	70 ^[6]	70 ^[6]	70 ^[6]
Max Infinite Volume Data Constituent Size (TiB)	Not Supported	Not Supported	Not Supported	Not Supported
Max Volume Count (Single)	500	500	500	500
Min Root Volume Size (Single/HA)	195 GB / 195 GB	250 GB / 250 GB	250 GB / 250 GB	250 GB / 250 GB
Chassis Height	5.12" (13.00 cm)	5.12" (13.00 cm)	10.32" (26.21 cm)	10.32" (26.21 cm)
Chassis Width with Mounting Flanges				
Chassis Width without Mounting Flanges	17.60" (44.70 cm)	17.60" (44.70 cm)	17.53" (44.52 cm)	17.53" (44.52 cm)
Chassis Depth with Cable Mgmt	23.90" (60.70 cm)	23.90" (60.70 cm)	29.00" (73.66 cm)	29.00" (73.66 cm)
Chassis Depth without Cable Mgmt				
Rack Units (Single/HA)	3 / 3 (without IOXM) 3 / 6 (with IOXM)	3 / 3 (without IOXM) 3 / 6 (with IOXM)	6 / 12	6 / 12
Chassis Weight – One Controller Module	-	-	121.89 lb (55.29 kg)	121.89 lb (55.29 kg)
Chassis Weight – Two Controllers Modules	79.37 lb (36 kg)	79.37 lb (36 kg)	-	-
Chassis Weight – Controller + IOXM	74.96 lb (34 kg)	74.96 lb (34 kg)	-	-
Front Clearance (Cooling/Maintenance)	30.02" (76.20 cm) 30.02" (76.20 cm)	30.02" (76.20 cm) 30.02" (76.20 cm)	5.99" (15.20 cm) 25.02" (63.50 cm)	5.99" (15.20 cm) 25.02" (63.50 cm)
Rear Clearance (Cooling/Maintenance)	12.02" (30.50 cm) 30.02" (76.20 cm)	12.02" (30.50 cm) 30.02" (76.20 cm)	12.02" (30.50 cm) 40.19" (102.00 cm)	12.02" (30.50 cm) 40.19" (102.00 cm)
Operating Temperature Range	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	20 to 80 %	20 to 80 %	20 to 80 %	20 to 80 %
Storage Relative Humidity				
Transit Relative Humidity				
Operating Altitude	0 to 9997.44 ft 0 to 3048 m	0 to 9997.44 ft 0 to 3048 m	--	--
Storage Altitude	0 to 39989.8 ft 0 to 12192 m	0 to 39989.8 ft 0 to 12192 m		
Transit Altitude	0 to 39989.8 ft 0 to 12192 m	0 to 39989.8 ft 0 to 12192 m		
Acoustic Noise - Sound Power	7.1 bels	7.1 bels	-	-
Acoustic Noise - Sound Pressure	55.4 dBA	55.4 dBA	56.5 dBA	56.5 dBA
Input Power Voltage	-60 to -40, 100 to 120, 200 to 240	-60 to -40, 100 to 120, 200 to 240	100 to 120, 200 to 240	100 to 120, 200 to 240
Processor (Single) ^[2]	1 x 64-bit 4-core 2.33 Ghz	2 x 64-bit 2-core 3.00 Ghz	2 x 64-bit 2.80 Ghz	2 x 64-bit 2.80 Ghz
Memory (Single) ^[2]	8 GB ^[8]	20 GB ^[9]	16 GB	16 GB
NVRAM (Single) ^[2]	1 GB (NVMEM)	1.5 GB (NVMEM)	512 MB (Adapter Card)	512 MB (Adapter Card)
Ethernet Ports (Single) ^[2]	2 x RJ45 (1Gbps)	2 x RJ45 (1Gbps)	6 x RJ45 (1Gbps)	6 x RJ45 (1Gbps)
Fibre Channel Ports (Single) ^[2]	2 x SFP (4Gbps)	2 x SFP (4Gbps)	8 x SFP (2Gbps)	8 x SFP (4Gbps)
UTA2 Ports (Single) ^[2]	N/A	N/A	N/A	N/A
Expansion Slots (Single) ^[2]	2 x PCIe (without IOXM) 6 x PCIe (with IOXM)	2 x PCIe (without IOXM) 6 x PCIe (with IOXM)	3 x PCI-X, 6 x PCIe	3 x PCI-X, 6 x PCIe
SAS Ports (Single) ^[2]	2 x QSFP (6Gbps)	2 x QSFP (6Gbps)		
Max Back-End FC Loops (HA)	13	13	10	10

Min version of Data ONTAP 7	7.3.5	7.3.5	7.2	7.2.4
Min version of Data ONTAP 8 (both modes)	8.0.1	8.0.1	8.0	8.0
EOA	08-Nov-2013	08-Nov-2013	01-May-2009	09-Mar-2012
EOS	31-Dec-2018	31-Dec-2018	01-Jun-2014	30-Apr-2017

Specifications per controller unless otherwise stated	FAS6070	FAS6080	FAS6210	FAS6240
				
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Max Raw Capacity (HA)	3024 TB	3528 TB	3600 TB	4320 TB
Max Storage Devices (HA)	1008 (disks)	1176 (disks)	1200 (disks)	1440 (disks)
Max DS2246 Shelves (HA)	42	49	50	60
Max DS4243 Shelves (HA)	42	49	50	60
Max DS4246 Shelves (HA)	42	49	50	60
Max DS4486 Shelves (HA)	Not Supported	Not Supported	Not Supported	Not Supported
Max DS14-Class Shelves (HA)	72	84	72	84
Max Nodes Per Cluster - NAS ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Max Nodes Per Cluster - SAN ^[1]	Not Supported	Not Supported	Not Supported	Not Supported
Aggregate Size 32 bit (TiB)	16 ^[3]	16 ^[3]	16 ^[3]	16 ^[3]
Aggregate Size 64 bit (TiB)	162 ^[4]	162 ^[4]	162 ^[4]	162 ^[4]
Flex Volume Size 32 bit (TiB)	16 ^[5]	16 ^[5]	16 ^[5]	16 ^[5]
Flex Volume Size 64 bit (TiB)	100 ^[6]	100 ^[6]	70 ^[6]	100 ^[6]
Max Infinite Volume Data Constituent Size (TiB)	Not Supported	Not Supported	Not Supported	Not Supported
Max Volume Count (Single)	500	500	500	500
Min Root Volume Size (Single/HA)	250 GB / 250 GB	250 GB / 250 GB	250 GB / 250 GB	250 GB / 250 GB
Chassis Height	10.32" (26.21 cm)	10.32" (26.21 cm)	10.18" (25.86 cm)	10.18" (25.86 cm)
Chassis Width with Mounting Flanges				
Chassis Width without Mounting Flanges	17.53" (44.52 cm)	17.53" (44.52 cm)	17.59" (44.68 cm)	17.59" (44.68 cm)
Chassis Depth with Cable Mgmt	29.00" (73.66 cm)	29.00" (73.66 cm)	29.00" (73.66 cm)	29.00" (73.66 cm)
Chassis Depth without Cable Mgmt				
Rack Units (Single/HA)	6 / 12	6 / 12	6 / 6	6 / 12 (with IOXM)
Chassis Weight – One Controller Module	121.89 lb (55.29 kg)	121.89 lb (55.29 kg)	99.21 lb (45 kg)	-
Chassis Weight – Two Controllers Modules	-	-	128.53 lb (58.3 kg)	-
Chassis Weight – Controller + IOXM	-	-	-	125.44 lb (56.9 kg)
Front Clearance (Cooling/Maintenance)	5.99" (15.20 cm) 25.02" (63.50 cm)	5.99" (15.20 cm) 25.02" (63.50 cm)	5.99" (15.20 cm) 30.02" (76.20 cm)	5.99" (15.20 cm) 30.02" (76.20 cm)
Rear Clearance (Cooling/Maintenance)	12.02" (30.50 cm) 40.19" (102.00 cm)	12.02" (30.50 cm) 40.19" (102.00 cm)	12.02" (30.50 cm) 36.01" (91.40 cm)	12.02" (30.50 cm) 36.01" (91.40 cm)
Operating Temperature Range	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C	50 to 104 deg F 10 to 40 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	20 to 80 %	20 to 80 %	20 to 80 %	20 to 80 %
Storage Relative Humidity				
Transit Relative Humidity				
Operating Altitude	--	--	0 to 9997.44 ft 0 to 3048 m	0 to 9997.44 ft 0 to 3048 m
Storage Altitude			0 to 39989.8 ft 0 to 12192 m	0 to 39989.8 ft 0 to 12192 m
Transit Altitude			0 to 39989.8 ft 0 to 12192 m	0 to 39989.8 ft 0 to 12192 m
Acoustic Noise - Sound Power	-	-	7.5 bels	7.5 bels
Acoustic Noise - Sound Pressure	56.5 dBA	56.5 dBA	61.3 dBA	61.3 dBA
Input Power Voltage	100 to 120, 200 to 240	100 to 120, 200 to 240	100 to 120, 200 to 240	100 to 120, 200 to 240
Processor (Single) ^[2]	4 x 64-bit 2.80 Ghz	4 x 64-bit 2-core 2.80 Ghz	2 x 64-bit 4-core 2.26 Ghz	2 x 64-bit 4-core 2.56 Ghz
Memory (Single) ^[2]	32 GB	32 GB	24 GB	48 GB
NVRAM (Single) ^[2]	2 GB (Adapter Card)	2 GB (Adapter Card)	4 GB (Adapter Card)	4 GB (Adapter Card)
Ethernet Ports (Single) ^[2]	6 x RJ45 (1Gbps)	6 x RJ45 (1Gbps)	2 x RJ45 (1Gbps) 4 x SFP+ (10Gbps)	2 x RJ45 (1Gbps) 4 x SFP+ (10Gbps)
Fibre Channel Ports (Single) ^[2]	8 x SFP (2Gbps)	8 x SFP (4Gbps)	4 x SFP+ (8Gbps)	4 x SFP+ (8Gbps)
UTA2 Ports (Single) ^[2]	N/A	N/A	N/A	N/A
Expansion Slots (Single) ^[2]	3 x PCI-X, 6 x PCIe	3 x PCI-X, 6 x PCIe	6 x PCIe ^[10]	16 x PCIe (with IOXM) ^[11]
SAS Ports (Single) ^[2]				
Max Back-End FC Loops (HA)	12	7	10	26
Min version of Data ONTAP 7	7.2	7.2.4		

Min version of Data ONTAP 8 (both modes)	8.0	8.0	8.0.1	8.0.1
EOA	01-May-2009	09-Mar-2012	08-Nov-2013	08-Nov-2013
EOS	01-Jun-2014	30-Apr-2017	31-Dec-2018	31-Dec-2018

Specifications per controller unless otherwise stated	FAS6280
	
	8.1 7-Mode
Max Raw Capacity (HA)	4320 TB
Max Storage Devices (HA)	1440 (disks)
Max DS2246 Shelves (HA)	60
Max DS4243 Shelves (HA)	60
Max DS4246 Shelves (HA)	60
Max DS4486 Shelves (HA)	Not Supported
Max DS14-Class Shelves (HA)	84
Max Nodes Per Cluster - NAS ^[1]	Not Supported
Max Nodes Per Cluster - SAN ^[1]	Not Supported
Aggregate Size 32 bit (TiB)	16 ^[3]
Aggregate Size 64 bit (TiB)	162 ^[4]
Flex Volume Size 32 bit (TiB)	16 ^[5]
Flex Volume Size 64 bit (TiB)	100 ^[6]
Max Infinite Volume Data Constituent Size (TiB)	Not Supported
Max Volume Count (Single)	500
Min Root Volume Size (Single/HA)	250 GB / 250 GB
Chassis Height	10.18" (25.86 cm)
Chassis Width with Mounting Flanges	
Chassis Width without Mounting Flanges	17.59" (44.68 cm)
Chassis Depth with Cable Mgmt	29.00" (73.66 cm)
Chassis Depth without Cable Mgmt	
Rack Units (Single/HA)	6 / 12 (with IOXM)
Chassis Weight – One Controller Module	-
Chassis Weight – Two Controllers Modules	-
Chassis Weight – Controller + IOXM	125.44 lb (56.9 kg)
Front Clearance (Cooling/Maintenance)	5.99" (15.20 cm) 30.02" (76.20 cm)
Rear Clearance (Cooling/Maintenance)	12.02" (30.50 cm) 36.01" (91.40 cm)
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	0 to 9997.44 ft 0 to 3048 m
Storage Altitude	0 to 39989.8 ft 0 to 12192 m
Transit Altitude	0 to 39989.8 ft 0 to 12192 m
Acoustic Noise - Sound Power	7.5 bels
Acoustic Noise - Sound Pressure	61.3 dBA
Input Power Voltage	100 to 120, 200 to 240
Processor (Single) ^[2]	2 x 64-bit 6-core 2.93 Ghz
Memory (Single) ^[2]	96 GB
NVRAM (Single) ^[2]	4 GB (Adapter Card)
Ethernet Ports (Single) ^[2]	2 x RJ45 (1Gbps) 4 x SFP+ (10Gbps)
Fibre Channel Ports (Single) ^[2]	4 x SFP+ (8Gbps)
UTA2 Ports (Single) ^[2]	N/A
Expansion Slots (Single) ^[2]	16 x PCIe (with IOXM) ^[11]
SAS Ports (Single) ^[2]	
Max Back-End FC Loops (HA)	26
Min version of Data ONTAP 7	

Min version of Data ONTAP 8 (both modes)	8.0.1
EOA	08-Nov-2013
EOS	31-Dec-2018

Drives	FAS2240-2	FAS2240-4	FAS3040	FAS3070
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
FC	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)
SAS	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X414A-R5 (600GB, 15k)  X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)
SATA	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)
SSD	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)		

Drives	FAS3140	FAS3160	FAS3170	FAS3210
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
FC	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)
SAS	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X414A-R5 (600GB, 15k)  X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)
SATA	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)
SSD		X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)

Drives	FAS3240	FAS3270	FAS6030	FAS6040
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
FC	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)
SAS	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X414A-R5 (600GB, 15k)  X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X414A-R5 (600GB, 15k)  X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)
SATA	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)
SSD	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)

Drives	FAS6070	FAS6080	FAS6210	FAS6240
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
FC	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)
SAS	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X414A-R5 (600GB, 15k)  X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X414A-R5 (600GB, 15k)  X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)
SATA	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)
SSD	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)	X441A-R5 (100GB) X442A-R5 (100GB)

Drives	FAS6280
	8.1 7-Mode
FC	X276A-R5 (300GB, 10k) X278A-R5 (144GB, 15k) X279A-R5 (300GB, 15k) X291A-R5 (450GB, 15k) X292A-R5 (600GB, 15k)
SAS	X410A-R5 (300GB, 15k) X411A-R5 (450GB, 15k) X412A-R5 (600GB, 15k) X414A-R5 (600GB, 15k)  X416A-R5 (600GB, 10k)  X421A-R5 (450GB, 10k) X422A-R5 (600GB, 10k) X423A-R5 (900GB, 10k)
SATA	X267A-R5 (500GB, 7.2k) X268A-R5 (750GB, 7.2k) X269A-R5 (1000GB, 7.2k) X294A-R5 (2000GB, 7.2k) X302A-R5 (1000GB, 7.2k) X306A-R5 (2000GB, 7.2k) X308A-R5 (3000GB, 7.2k) X310A-R5 (500GB, 7.2k)
SSD	X441A-R5 (100GB) X442A-R5 (100GB)

 indicates that the drive is encrypted

Shelves	FAS2240-2	FAS2240-4	FAS3040	FAS3070
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Shelf Name	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246

Shelves	FAS3140	FAS3160	FAS3170	FAS3210
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Shelf Name	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246

Shelves	FAS3240	FAS3270	FAS6030	FAS6040
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Shelf Name	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246

Shelves	FAS6070	FAS6080	FAS6210	FAS6240
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Shelf Name	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246

Shelves	FAS6280
	8.1 7-Mode
Shelf Name	DS14-Mk2-AT DS14-Mk2-FC DS14-Mk4-FC DS2246 DS4243 DS4246

Adapters	FAS2240-2	FAS2240-4	FAS3040
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Block Access	X1150A-R6 2p 2/4/8Gb FC Op (max 1)	X1150A-R6 2p 2/4/8Gb FC Op (max 1)	X1128A-R6 2p 4Gb FC Op (max 2) X1130A-R6 4p 4Gb FC Op (max 3) X1131A-R6 2p 8Gb FC Op (max 3) X1139A-R6 2p 10Gb UTA Op (max 3) X1140A-R6 2p 10Gb UTA Cu (max 3)
Networking	X1160A-R6 2p 10GbE NIC Op (max 1)	X1160A-R6 2p 10GbE NIC Op (max 1)	X1006A-R5 4p 1GbE TOE Cu (max 3) X1008A-R6 2p 10GbE TOE Op (max 3) X1038A-R6 2p 1GbE NIC Op (max 3) X1039A-R6 2p 1GbE NIC Cu (max 3) X1049A-R6 4p 1GbE NIC Cu (max 3) X1049B-R6 4p 1GbE NIC Cu (max 3) X1107A-R6 2p 10GbE NIC Op (max 3) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 3) X1140A-R6 2p 10Gb UTA Cu (max 3)
Tape	X1150A-R6 2p 2/4/8Gb FC Op (max 1)	X1150A-R6 2p 2/4/8Gb FC Op (max 1)	X2028A-R6 2p 320MB SCSI Cu (max 3) X2053A-R6 2p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 3) X2054B-R6 4p 4Gb FC Op (max 3) X2055A-R6 2p 4Gb FC Op (max 3) X2065A-R6 4p 3/6Gb SAS (max 3)
NVRAM/HA			X3147-R5 NVRAM6 512MB (max 1)
Performance Acceleration			X1936A-R5 Performance Acceleration Module (max 1)
Storage			X2054A-R6 4p 4Gb FC Op (max 3) X2054B-R6 4p 4Gb FC Op (max 3) X2055A-R6 2p 4Gb FC Op (max 3) X2065A-R6 4p 3/6Gb SAS (max 3)
Vertical IO			

Adapters	FAS3070	FAS3140	FAS3160
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Block Access	X1128A-R6 2p 4Gb FC Op (max 2) X1130A-R6 4p 4Gb FC Op (max 3) X1131A-R6 2p 8Gb FC Op (max 3) X1139A-R6 2p 10Gb UTA Op (max 3) X1140A-R6 2p 10Gb UTA Cu (max 3)	X1128A-R6 2p 4Gb FC Op (max 2) X1130A-R6 4p 4Gb FC Op (max 4) X1131A-R6 2p 8Gb FC Op (max 4) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4)	X1128A-R6 2p 4Gb FC Op (max 2) X1130A-R6 4p 4Gb FC Op (max 4) X1131A-R6 2p 8Gb FC Op (max 4) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4)
Networking	X1006A-R5 4p 1GbE TOE Cu (max 3) X1008A-R6 2p 10GbE TOE Op (max 3) X1038A-R6 2p 1GbE NIC Op (max 3) X1039A-R6 2p 1GbE NIC Cu (max 3) X1049A-R6 4p 1GbE NIC Cu (max 3) X1049B-R6 4p 1GbE NIC Cu (max 3) X1107A-R6 2p 10GbE NIC Op (max 3) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 3) X1140A-R6 2p 10Gb UTA Cu (max 3)	X1006A-R5 4p 1GbE TOE Cu (max 4) X1008A-R6 2p 10GbE TOE Op (max 4) X1038A-R6 2p 1GbE NIC Op (max 4) X1039A-R6 2p 1GbE NIC Cu (max 4) X1049A-R6 4p 1GbE NIC Cu (max 4) X1049B-R6 4p 1GbE NIC Cu (max 4) X1049C-R6 4p 1GbE NIC Cu (max 4) X1107A-R6 2p 10GbE NIC Op (max 4) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4)	X1006A-R5 4p 1GbE TOE Cu (max 4) X1008A-R6 2p 10GbE TOE Op (max 4) X1038A-R6 2p 1GbE NIC Op (max 4) X1039A-R6 2p 1GbE NIC Cu (max 4) X1049A-R6 4p 1GbE NIC Cu (max 4) X1049B-R6 4p 1GbE NIC Cu (max 4) X1049C-R6 4p 1GbE NIC Cu (max 4) X1107A-R6 2p 10GbE NIC Op (max 4) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4)
Tape	X2028A-R6 2p 320MB SCSI Cu (max 3) X2053A-R6 2p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 3) X2054B-R6 4p 4Gb FC Op (max 3) X2055A-R6 2p 4Gb FC Op (max 3) X2065A-R6 4p 3/6Gb SAS (max 3)	X2028A-R6 2p 320MB SCSI Cu (max 4) X2053A-R6 2p 4Gb FC Op (max 4) X2054A-R6 4p 4Gb FC Op (max 4) X2054B-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)	X2028A-R6 2p 320MB SCSI Cu (max 4) X2053A-R6 2p 4Gb FC Op (max 4) X2054A-R6 4p 4Gb FC Op (max 4) X2054B-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)
NVRAM/HA	X3147-R5 NVRAM6 512MB (max 1)		
Performance Acceleration	X1936A-R5 Performance Acceleration Module (max 2) X1937A-R5 Flash Cache 256GB (max 2) X1970A-R5 Flash Cache 256GB (max 2)	X1936A-R5 Performance Acceleration Module (max 2)	X1936A-R5 Performance Acceleration Module (max 2) X1937A-R5 Flash Cache 256GB (max 2) X1970A-R5 Flash Cache 256GB (max 2)
Storage	X2054A-R6 4p 4Gb FC Op (max 3) X2054B-R6 4p 4Gb FC Op (max 3) X2055A-R6 2p 4Gb FC Op (max 3) X2065A-R6 4p 3/6Gb SAS (max 3)	X2054A-R6 4p 4Gb FC Op (max 4) X2054B-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)	X2054A-R6 4p 4Gb FC Op (max 4) X2054B-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)
Vertical IO			

Adapters	FAS3170	FAS3210	FAS3240
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Block Access	X1128A-R6 2p 4Gb FC Op (max 2) X1130A-R6 4p 4Gb FC Op (max 4) X1131A-R6 2p 8Gb FC Op (max 4) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4)	X1128A-R6 2p 4Gb FC Op (max 2) X1130A-R6 4p 4Gb FC Op (max 2) X1131A-R6 2p 8Gb FC Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 2) X1140A-R6 2p 10Gb UTA Cu (max 2)	X1128A-R6 2p 4Gb FC Op (max 6) X1130A-R6 4p 4Gb FC Op (max 6) X1131A-R6 2p 8Gb FC Op (max 6) X1139A-R6 2p 10Gb UTA Op (max 6) X1140A-R6 2p 10Gb UTA Cu (max 6)
Networking	X1006A-R5 4p 1GbE TOE Cu (max 4) X1008A-R6 2p 10GbE TOE Op (max 4) X1038A-R6 2p 1GbE NIC Op (max 4) X1039A-R6 2p 1GbE NIC Cu (max 4) X1049A-R6 4p 1GbE NIC Cu (max 4) X1049B-R6 4p 1GbE NIC Cu (max 4) X1049C-R6 4p 1GbE NIC Cu (max 4) X1107A-R6 2p 10GbE NIC Op (max 4) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4)	X1038A-R6 2p 1GbE NIC Op (max 2) X1049A-R6 4p 1GbE NIC Cu (max 2) X1049B-R6 4p 1GbE NIC Cu (max 2) X1049C-R6 4p 1GbE NIC Cu (max 2) X1107A-R6 2p 10GbE NIC Op (max 2) X1117A-R6 2p 10GbE NIC Cu/Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 2) X1140A-R6 2p 10Gb UTA Cu (max 2) X1142A-R6 2p 8Gb FC/VI Op (max 1)	X1038A-R6 2p 1GbE NIC Op (max 6) X1049A-R6 4p 1GbE NIC Cu (max 6) X1049B-R6 4p 1GbE NIC Cu (max 6) X1049C-R6 4p 1GbE NIC Cu (max 6) X1107A-R6 2p 10GbE NIC Op (max 6) X1117A-R6 2p 10GbE NIC Cu/Op (max 6) X1139A-R6 2p 10Gb UTA Op (max 6) X1140A-R6 2p 10Gb UTA Cu (max 6) X1142A-R6 2p 8Gb FC/VI Op (max 2)
Tape	X2028A-R6 2p 320MB SCSI Cu (max 4) X2053A-R6 2p 4Gb FC Op (max 4) X2054A-R6 4p 4Gb FC Op (max 4) X2054B-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)	X2028A-R6 2p 320MB SCSI Cu (max 2) X2053A-R6 2p 4Gb FC Op (max 2) X2054A-R6 4p 4Gb FC Op (max 2) X2055A-R6 2p 4Gb FC Op (max 2) X2065A-R6 4p 3/6Gb SAS (max 2)	X2028A-R6 2p 320MB SCSI Cu (max 6) X2053A-R6 2p 4Gb FC Op (max 6) X2054A-R6 4p 4Gb FC Op (max 6) X2055A-R6 2p 4Gb FC Op (max 6) X2065A-R6 4p 3/6Gb SAS (max 2)
NVRAM/HA			
Performance Acceleration	X1936A-R5 Performance Acceleration Module (max 4) X1938A-R5 Flash Cache 512GB (max 2) X1971A-R5 Flash Cache 512GB (max 2)		X1937A-R5 Flash Cache 256GB (max 2) X1938A-R5 Flash Cache 512GB (max 1) X1970A-R5 Flash Cache 256GB (max 2) X1971A-R5 Flash Cache 512GB (max 1)
Storage	X2054A-R6 4p 4Gb FC Op (max 4) X2054B-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)	X2054A-R6 4p 4Gb FC Op (max 2) X2055A-R6 2p 4Gb FC Op (max 2) X2065A-R6 4p 3/6Gb SAS (max 2)	X2054A-R6 4p 4Gb FC Op (max 6) X2055A-R6 2p 4Gb FC Op (max 6) X2065A-R6 4p 3/6Gb SAS (max 6)
Vertical IO			

Adapters	FAS3270	FAS6030	FAS6040
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Block Access	X1128A-R6 2p 4Gb FC Op (max 6) X1130A-R6 4p 4Gb FC Op (max 6) X1131A-R6 2p 8Gb FC Op (max 6) X1139A-R6 2p 10Gb UTA Op (max 6) X1140A-R6 2p 10Gb UTA Cu (max 6)	X1128A-R6 2p 4Gb FC Op (max 4) X1130A-R6 4p 4Gb FC Op (max 5) X1131A-R6 2p 8Gb FC Op (max 5) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)	X1128A-R6 2p 4Gb FC Op (max 4) X1130A-R6 4p 4Gb FC Op (max 5) X1131A-R6 2p 8Gb FC Op (max 5) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)
Networking	X1038A-R6 2p 1GbE NIC Op (max 6) X1049A-R6 4p 1GbE NIC Cu (max 6) X1049B-R6 4p 1GbE NIC Cu (max 6) X1049C-R6 4p 1GbE NIC Cu (max 6) X1107A-R6 2p 10GbE NIC Op (max 6) X1117A-R6 2p 10GbE NIC Cu/Op (max 6) X1139A-R6 2p 10Gb UTA Op (max 6) X1140A-R6 2p 10Gb UTA Cu (max 6) X1142A-R6 2p 8Gb FC/VI Op (max 2)	X1005A-R5 1p 10GbE TOE Op (max 2) X1006A-R5 4p 1GbE TOE Cu (max 5) X1007A-R5 4p 1GbE TOE Cu (max 2) X1008A-R6 2p 10GbE TOE Op (max 5) X1038A-R6 2p 1GbE NIC Op (max 5) X1039A-R6 2p 1GbE NIC Cu (max 5) X1047B-R6 4p 1GbE NIC Cu (max 3) X1049A-R6 4p 1GbE NIC Cu (max 5) X1049B-R6 4p 1GbE NIC Cu (max 5) X1049C-R6 4p 1GbE NIC Cu (max 5) X1107A-R6 2p 10GbE NIC Op (max 5) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)	X1005A-R5 1p 10GbE TOE Op (max 2) X1006A-R5 4p 1GbE TOE Cu (max 5) X1007A-R5 4p 1GbE TOE Cu (max 2) X1008A-R6 2p 10GbE TOE Op (max 5) X1038A-R6 2p 1GbE NIC Op (max 5) X1039A-R6 2p 1GbE NIC Cu (max 5) X1047B-R6 4p 1GbE NIC Cu (max 3) X1049A-R6 4p 1GbE NIC Cu (max 5) X1049B-R6 4p 1GbE NIC Cu (max 5) X1049C-R6 4p 1GbE NIC Cu (max 5) X1107A-R6 2p 10GbE NIC Op (max 5) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)
Tape	X2028A-R6 2p 320MB SCSI Cu (max 6) X2053A-R6 2p 4Gb FC Op (max 6) X2054A-R6 4p 4Gb FC Op (max 6) X2055A-R6 2p 4Gb FC Op (max 6) X2065A-R6 4p 3/6Gb SAS (max 2)	X2027B-R5 2p 320MB SCSI Cu (max 3) X2028A-R6 2p 320MB SCSI Cu (max 3) X2052A-R5 4p 4Gb FC Op (max 3) X2053A-R6 2p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)	X2027B-R5 2p 320MB SCSI Cu (max 3) X2028A-R6 2p 320MB SCSI Cu (max 3) X2052A-R5 4p 4Gb FC Op (max 3) X2053A-R6 2p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)
NVRAM/HA		X3147-R5 NVRAM6 512MB (max 1)	X3147-R5 NVRAM6 512MB (max 1)
Performance Acceleration	X1938A-R5 Flash Cache 512GB (max 2) X1971A-R5 Flash Cache 512GB (max 2) X1972A-R5 Flash Cache 1TB (max 1)	X1936A-R5 Performance Acceleration Module (max 4)	X1936A-R5 Performance Acceleration Module (max 4) X1938A-R5 Flash Cache 512GB (max 2) X1971A-R5 Flash Cache 512GB (max 2)
Storage	X2054A-R6 4p 4Gb FC Op (max 6) X2055A-R6 2p 4Gb FC Op (max 6) X2065A-R6 4p 3/6Gb SAS (max 6)	X2052A-R5 4p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)	X2052A-R5 4p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)
Vertical IO			

Adapters	FAS6070	FAS6080	FAS6210
	8.1 7-Mode	8.1 7-Mode	8.1 7-Mode
Block Access	X1128A-R6 2p 4Gb FC Op (max 4) X1130A-R6 4p 4Gb FC Op (max 5) X1131A-R6 2p 8Gb FC Op (max 5) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)	X1128A-R6 2p 4Gb FC Op (max 4) X1130A-R6 4p 4Gb FC Op (max 5) X1131A-R6 2p 8Gb FC Op (max 5) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)	X1130A-R6 4p 4Gb FC Op (max 4) X1131A-R6 2p 8Gb FC Op (max 4) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4)
Networking	X1005A-R5 1p 10GbE TOE Op (max 2) X1006A-R5 4p 1GbE TOE Cu (max 5) X1007A-R5 4p 1GbE TOE Cu (max 2) X1008A-R6 2p 10GbE TOE Op (max 5) X1038A-R6 2p 1GbE NIC Op (max 5) X1039A-R6 2p 1GbE NIC Cu (max 5) X1047B-R6 4p 1GbE NIC Cu (max 3) X1049A-R6 4p 1GbE NIC Cu (max 5) X1049B-R6 4p 1GbE NIC Cu (max 5) X1049C-R6 4p 1GbE NIC Cu (max 5) X1107A-R6 2p 10GbE NIC Op (max 5) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)	X1005A-R5 1p 10GbE TOE Op (max 2) X1006A-R5 4p 1GbE TOE Cu (max 5) X1007A-R5 4p 1GbE TOE Cu (max 2) X1008A-R6 2p 10GbE TOE Op (max 5) X1038A-R6 2p 1GbE NIC Op (max 5) X1039A-R6 2p 1GbE NIC Cu (max 5) X1047B-R6 4p 1GbE NIC Cu (max 3) X1049A-R6 4p 1GbE NIC Cu (max 5) X1049B-R6 4p 1GbE NIC Cu (max 5) X1049C-R6 4p 1GbE NIC Cu (max 5) X1107A-R6 2p 10GbE NIC Op (max 5) X1124A-R6 2p 2Gb FC/VI Op (max 2) X1139A-R6 2p 10Gb UTA Op (max 5) X1140A-R6 2p 10Gb UTA Cu (max 5)	X1038A-R6 2p 1GbE NIC Op (max 4) X1049A-R6 4p 1GbE NIC Cu (max 4) X1049B-R6 4p 1GbE NIC Cu (max 4) X1049C-R6 4p 1GbE NIC Cu (max 4) X1117A-R6 2p 10GbE NIC Cu/Op (max 4) X1139A-R6 2p 10Gb UTA Op (max 4) X1140A-R6 2p 10Gb UTA Cu (max 4) X1142A-R6 2p 8Gb FC/VI Op (max 2)
Tape	X2027B-R5 2p 320MB SCSI Cu (max 3) X2028A-R6 2p 320MB SCSI Cu (max 3) X2052A-R5 4p 4Gb FC Op (max 3) X2053A-R6 2p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)	X2027B-R5 2p 320MB SCSI Cu (max 3) X2028A-R6 2p 320MB SCSI Cu (max 3) X2052A-R5 4p 4Gb FC Op (max 3) X2053A-R6 2p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)	X2028A-R6 2p 320MB SCSI Cu (max 4) X2053A-R6 2p 4Gb FC Op (max 4) X2054A-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)
NVRAM/HA	X3148-R5 NVRAM6 2GB (max 1)	X3148-R5 NVRAM6 2GB (max 1)	X3149-R6 NVRAM8 4GB (max 1)
Performance Acceleration	X1936A-R5 Performance Acceleration Module (max 5) X1938A-R5 Flash Cache 512GB (max 4) X1971A-R5 Flash Cache 512GB (max 4)	X1936A-R5 Performance Acceleration Module (max 5) X1938A-R5 Flash Cache 512GB (max 4) X1971A-R5 Flash Cache 512GB (max 4)	X1938A-R5 Flash Cache 512GB (max 3) X1971A-R5 Flash Cache 512GB (max 3) X1972A-R5 Flash Cache 1TB (max 1)
Storage	X2052A-R5 4p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)	X2052A-R5 4p 4Gb FC Op (max 3) X2054A-R6 4p 4Gb FC Op (max 5) X2054B-R6 4p 4Gb FC Op (max 5) X2055A-R6 2p 4Gb FC Op (max 5) X2065A-R6 4p 3/6Gb SAS (max 5)	X2054A-R6 4p 4Gb FC Op (max 4) X2055A-R6 2p 4Gb FC Op (max 4) X2065A-R6 4p 3/6Gb SAS (max 4)
Vertical IO			X2056-R6 4p 8Gb FC Op (max 1) X2067-R6 4p 3/6Gb SAS Cu (max 1)

Adapters	FAS6240	FAS6280
	8.1 7-Mode	8.1 7-Mode
Block Access	X1130A-R6 4p 4Gb FC Op (max 8) X1131A-R6 2p 8Gb FC Op (max 12) X1139A-R6 2p 10Gb UTA Op (max 12) X1140A-R6 2p 10Gb UTA Cu (max 12)	X1130A-R6 4p 4Gb FC Op (max 8) X1131A-R6 2p 8Gb FC Op (max 12) X1139A-R6 2p 10Gb UTA Op (max 12) X1140A-R6 2p 10Gb UTA Cu (max 12)
Networking	X1038A-R6 2p 1GbE NIC Op (max 10) X1049A-R6 4p 1GbE NIC Cu (max 5) X1049B-R6 4p 1GbE NIC Cu (max 5) X1049C-R6 4p 1GbE NIC Cu (max 5) X1117A-R6 2p 10GbE NIC Cu/Op (max 8) X1139A-R6 2p 10Gb UTA Op (max 12) X1140A-R6 2p 10Gb UTA Cu (max 12) X1142A-R6 2p 8Gb FC/VI Op (max 2)	X1038A-R6 2p 1GbE NIC Op (max 10) X1049A-R6 4p 1GbE NIC Cu (max 5) X1049B-R6 4p 1GbE NIC Cu (max 5) X1049C-R6 4p 1GbE NIC Cu (max 5) X1117A-R6 2p 10GbE NIC Cu/Op (max 8) X1139A-R6 2p 10Gb UTA Op (max 12) X1140A-R6 2p 10Gb UTA Cu (max 12) X1142A-R6 2p 8Gb FC/VI Op (max 2)
Tape	X2028A-R6 2p 320MB SCSI Cu (max 8) X2053A-R6 2p 4Gb FC Op (max 8) X2054A-R6 4p 4Gb FC Op (max 8) X2055A-R6 2p 4Gb FC Op (max 8) X2065A-R6 4p 3/6Gb SAS (max 6)	X2028A-R6 2p 320MB SCSI Cu (max 8) X2053A-R6 2p 4Gb FC Op (max 8) X2054A-R6 4p 4Gb FC Op (max 8) X2065A-R6 4p 3/6Gb SAS (max 6)
NVRAM/HA	X3149-R6 NVRAM8 4GB (max 1)	X3149-R6 NVRAM8 4GB (max 1)
Performance Acceleration	X1938A-R5 Flash Cache 512GB (max 6) X1971A-B-R5 Flash Cache 512GB (max 1) X1971A-R5 Flash Cache 512GB (max 6) X1972A-R5 Flash Cache 1TB (max 3)	X1938A-R5 Flash Cache 512GB (max 8) X1971A-B-R5 Flash Cache 512GB (max 1) X1971A-R5 Flash Cache 512GB (max 12) X1972A-R5 Flash Cache 1TB (max 8)
Storage	X2054A-R6 4p 4Gb FC Op (max 12) X2055A-R6 2p 4Gb FC Op (max 12) X2065A-R6 4p 3/6Gb SAS (max 6)	X2054A-R6 4p 4Gb FC Op (max 12) X2055A-R6 2p 4Gb FC Op (max 12) X2065A-R6 4p 3/6Gb SAS (max 6)
Vertical IO	X2056-R6 4p 8Gb FC Op (max 3) X2067-R6 4p 3/6Gb SAS Cu (max 3)	X2056-R6 4p 8Gb FC Op (max 3) X2067-R6 4p 3/6Gb SAS Cu (max 3)

Notes ID	Notes Description
1	Maximum number of nodes within a cluster is determined by platform which supports the fewest number of nodes
2	Values will have to be doubled for HA configurations.
3	The maximum usable aggregate capacity is roughly 90% of the values shown in the "Aggregate Size 32 bit (TiB)" rows.
4	The maximum usable aggregate capacity is roughly 90% of the values shown in the "Aggregate Size 64 bit (TiB)" rows.
5	The maximum usable FlexVol capacity is roughly 90% of the values shown in the "Flex Volume Size 32 bit (TiB)" rows.
6	The maximum usable FlexVol capacity is roughly 90% of the values shown in the "Flex Volume Size 64 bit (TiB)" rows.
7	NVMEM on FAS/V3210 leverages a portion of the 5GB of controller memory, resulting in 4.5GB 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.
8	NVMEM on FAS/V3240 leverages a portion of the 8GB of controller memory, resulting in 7GB 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.
9	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.
10	The FAS/V6210/6220 controller has 6x physical expansion slots (2x vertical slots and 4x horizontal slots). While the horizontal slots support a wide mix of adapters, the vertical slots are limited to the NVRAM, 8Gb FC, and 6Gb SAS adapters that cannot be used in horizontal slots. Given this, other collateral such as the Tech Specs on www.netapp.com might only show the number of horizontal slots on the controller.
11	The FAS/V6240/6250/6280/6290 controller has 16x physical expansion slots (4x vertical slots and 12x horizontal slots). While the horizontal slots support a wide mix of adapters, the vertical slots are limited to the NVRAM, 8Gb FC, and 6Gb SAS adapters that cannot be used in horizontal slots. Given this, other collateral such as the Tech Specs on www.netapp.com might only show the number of horizontal slots on the controller.