



STORAGE CONTROLLERS

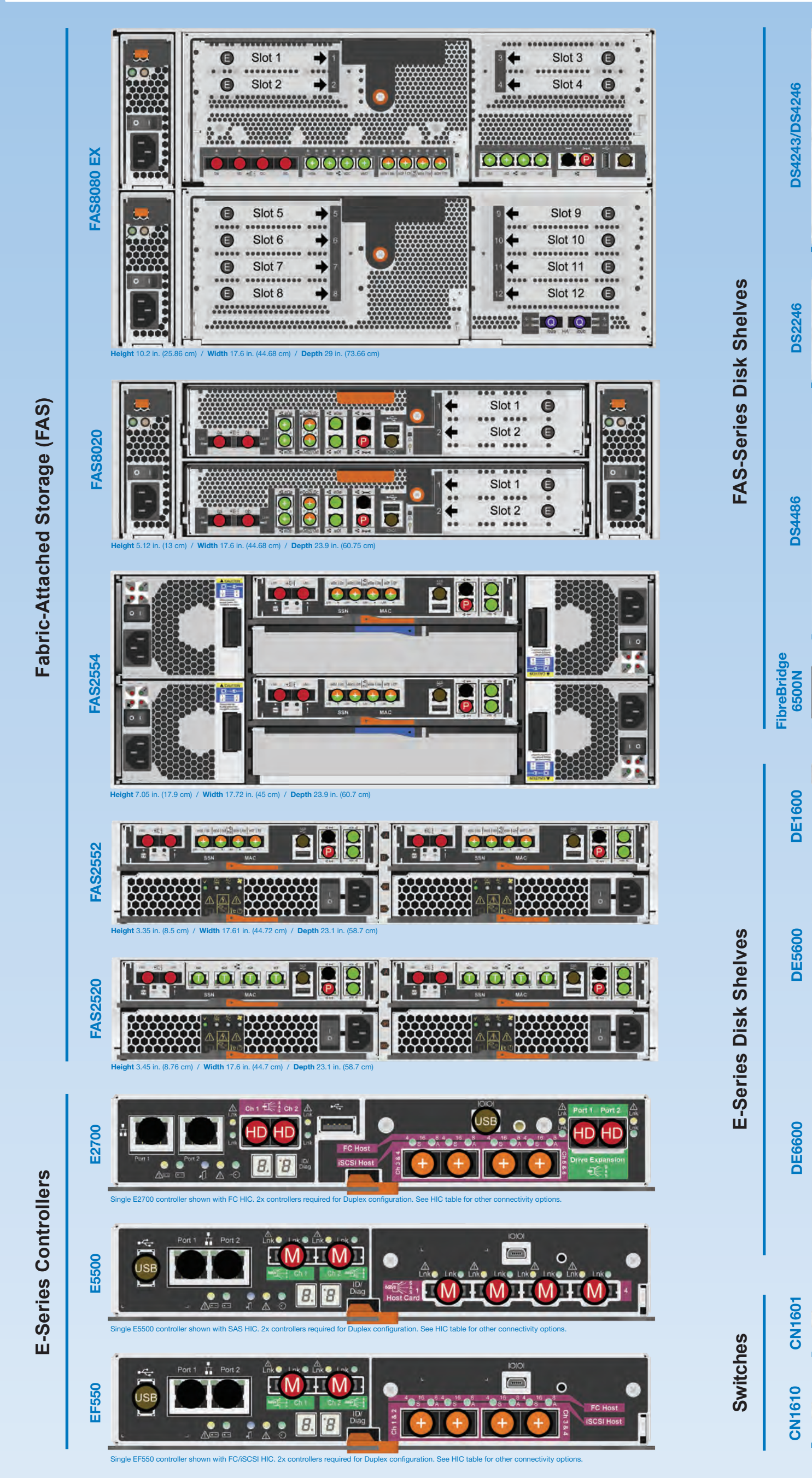
Fabric-Attached Storage (FAS)						
Model	FAS8080EX	FAS8060	FAS8040	FAS8020	FAS2554	FAS2552
Front View						
Max Capacity	5760TB	4800TB	2880TB	1920TB	576TB	509TB
Max Aggregate Size	400TB	400TB	324TB	324TB	120TB	120TB
Max FlexVol Size	100TB	100TB	100TB	70TB	60TB	60TB
Max Cluster Nodes	24 / 8	24 / 8	24 / 8	24 / 8	8 / 8	2 / 2
Max Cache (Flash Pool only)	36TB	18TB	12TB	6TB	4TB (Flash Pool only)	4TB (Flash Pool only)
Max Shelves (DS4243/DS4246)	30 / 60 / 60	25 / 50 / 50	15 / 30 / 30	10 / 20 / 20	- / 5 / 5	- / 3 / 3
Max Drive Quantity	1440	1200	720	480	144 (24 H + 120 ext)	84 (12 H + 72 ext)
Backup Specs	Max LUNs	1440	1200	720	480	
Supported Arrays	EMC V-MAX VNX CX4 HP 3PAR EVA XP Hitachi VSP HUS AMS USP-V NetApp E-Series					FlexArray Not Supported
Rack Units (U)	12U / 6U	6U / 6U	6U / 6U	3U / 3U	4U / 4U	2U / 2U
Weight (lbs / kg)	235.8 lb (108.8 kg) 115.8 lb (52.5 kg)	121.2 lb (55.1 kg) 101.8 lb (46.3 kg)	115.2 lb (52.4 kg) 100.8 lb (45.8 kg)	74.1 lb (33.6 kg) 63.8 lb (28.8 kg)	107 lb (48.9 kg) 100.8 lb (45.8 kg)	55.4 lb (25.2 kg) 50.7 lb (23.1 kg)
Amps (Typical / Worst-Case)	13.6A / 6.75A @100V 6.75A / 3.38A @200V	3.37A @100V 3.2A / 1.75A @200V	4.7A / 2.4A @100V 2.36A / 1.4A @200V	3.32A / 2.4A @100V 1.94A / 1.4A @200V	4.81 / 4.32 @100V 2.61A / 1.2A @200V	2.7A / 2.25 @100V 1.58A / 1.2A @200V
BTUs/hr (Typical / Worst-Case)	4488 / 2254 @100V 4298 / 2198 @200V	- / 1088 @100V 1088 / 544 @200V	1526 / 874 @100V 1460 / 874 @200V	1246 / 874 @100V 1200 / 800 @200V	1792 / 1080 @100V 1584 / 900 @200V	1246 / 874 @100V 1200 / 800 @200V
Processor (MHz / Cores)	4 / 2 64-bit 10-core	4 / 2 64-bit 10-core	2 / 1 64-bit 5-core	2 / 1 64-bit 5-core	2 / 1 64-bit 5-core	2 / 1 64-bit 5-core
Memory (MB / Config)	24GB / 12GB	12GB / 6GB	6GB / 3GB	4GB / 2GB	3GB / 1.5GB	3GB / 1.5GB
NVRAM (MB / Config)	3GB / 1.5GB	1.5GB / 0.75GB	0.75GB / 0.375GB	0.5GB / 0.25GB	0.3GB / 0.15GB	0.3GB / 0.15GB
Exp Slots (PCIe / Config)	24 / 12 PCIe with QDR	8 / 4 PCIe	8 / 4 PCIe	4 / 2 PCIe	-	-
Ethernet (RJ-45 / Config)	8 / 4 GbE RJ45 8 / 4 10GbE RJ45	8 / 4 GbE RJ45 8 / 4 10GbE RJ45	8 / 4 GbE RJ45 8 / 4 10GbE RJ45	4 / 2 GbE RJ45 4 / 2 10GbE RJ45	4 / 2 GbE RJ45 4 / 2 10GbE RJ45	4 / 2 GbE RJ45 4 / 2 10GbE RJ45
UTA2 Ports (RJ-45 / Config)	8 / 4 10GbE SFP+ RJ45 8 / 4 10GbE SFP+ RJ45	8 / 4 10GbE SFP+ RJ45 8 / 4 10GbE SFP+ RJ45	8 / 4 10GbE SFP+ RJ45 8 / 4 10GbE SFP+ RJ45	8 / 4 10GbE SFP+ RJ45 8 / 4 10GbE SFP+ RJ45	8 / 4 10GbE SFP+ RJ45 8 / 4 10GbE SFP+ RJ45	8 / 4 10GbE SFP+ RJ45 8 / 4 10GbE SFP+ RJ45
SAS Ports (SAS / Config)	8 / 4 6Gb SAS 8 / 4 6Gb SAS	8 / 4 6Gb SAS 8 / 4 6Gb SAS	8 / 4 6Gb SAS 8 / 4 6Gb SAS	4 / 2 6Gb SAS 4 / 2 6Gb SAS	4 / 2 6Gb SAS 4 / 2 6Gb SAS	4 / 2 6Gb SAS 4 / 2 6Gb SAS
Min ONTAP	8.2.2	8.2.1	8.2.1	8.2.1	8.2.2	8.2.2

E-Series						
Model	E2712	E2724	E2760	E5512	E5524	E5560
Front View						
Max Capacity	768TB	700.8TB	768TB	1536TB	1468.8TB	1536TB
Max Dynamic Disk Pool Volumes	512	512	512	2048	2048	2048
Max Vol Count	512	512	512	2048	2048	2048
Max Vol size for Dynamic Disk Pool	64	64	64	64	64	64
Max Disk Pools	20	20	20	20	20	20
Max External Shelves (DS4243/DS4246)	15 / 7 / 3	14 / 7 / 2	11 / 5 / 2	15 / 15 / 6	15 / 15 / 6	15 / 13 / 5
Max Drive Quantity	192	192	192	384	384	384
Rack Units	2U	2U	4U	2U	2U	2U
Max Weight (lbs / kg)	59.32 lb (27 kg)	57.32 lb (26 kg)	232 lb (105.2 kg)	59.32 lb (27 kg)	57.32 lb (26 kg)	57.32 lb (26 kg)
Amps (Typical / Worst-Case)	2.88 / 4.35 @100V 1.34 / 2.03 @200V	2.88 / 4.35 @100V 1.44 / 2.12 @200V	6.58 / 8.5 @100V 6.08 / 7.96 @200V	3.24 / 4.8 @100V 1.62 / 2.3 @200V	3.82 / 5.18 @100V 1.91 / 2.59 @200V	3.2 / 4.57 @100V 1.6 / 2.28 @200V
Watts (Typical / Worst-Case)	354 / 502 @220V	407 / 555 @220V	967 / 1174 @220V	429 / 577 @220V	482 / 630 @220V	452 / 600 @220V
BTUs/hr (Typical / Worst-Case)	1207 / 1714 @220V	1388 / 1824 @220V	3298 / 4008 @220V	1464 / 1870 @220V	1644 / 2150 @220V	1644 / 2150 @220V
Memory (DRAM)	8 or 16GB	8 or 16GB	8 or 16GB	24GB	24GB	24GB
Host Interface Cards (NICs)	0 / 2	0 / 2	0 / 2	2	2	2
SAS Ports (SAS)	6Gb HD SAS 6Gb HD SAS	6Gb HD SAS 6Gb HD SAS	6Gb HD SAS 6Gb HD SAS	6Gb HD SAS 6Gb HD SAS	6Gb HD SAS 6Gb HD SAS	6Gb HD SAS 6Gb HD SAS
Min SANtricity Version	11.10	11.10	11.10	7.86	7.86	7.86

Clustered ONTAP Switches		Optical Module Support	
Model	CN1601	Onboard Ports	Adapter Cards
Front View			
Supported Modes	Cluster		
Marketing Parts	X1901-R		
Rack Units	1U		
Weight	22.5 lbs (10.2 kg)		
Amps (Typical / Worst-Case)	1.26A @100V 0.63A @200V		
BTUs/hr (Typical / Worst-Case)	1260 @100V 1160 @200V		
Watts (Typical / Worst-Case)	400 @100V 400 @200V		
Ethernet Ports	16 GbE SFP+ 16 GbE RJ45		
Data ONTAP	8.1.1, 8.2		

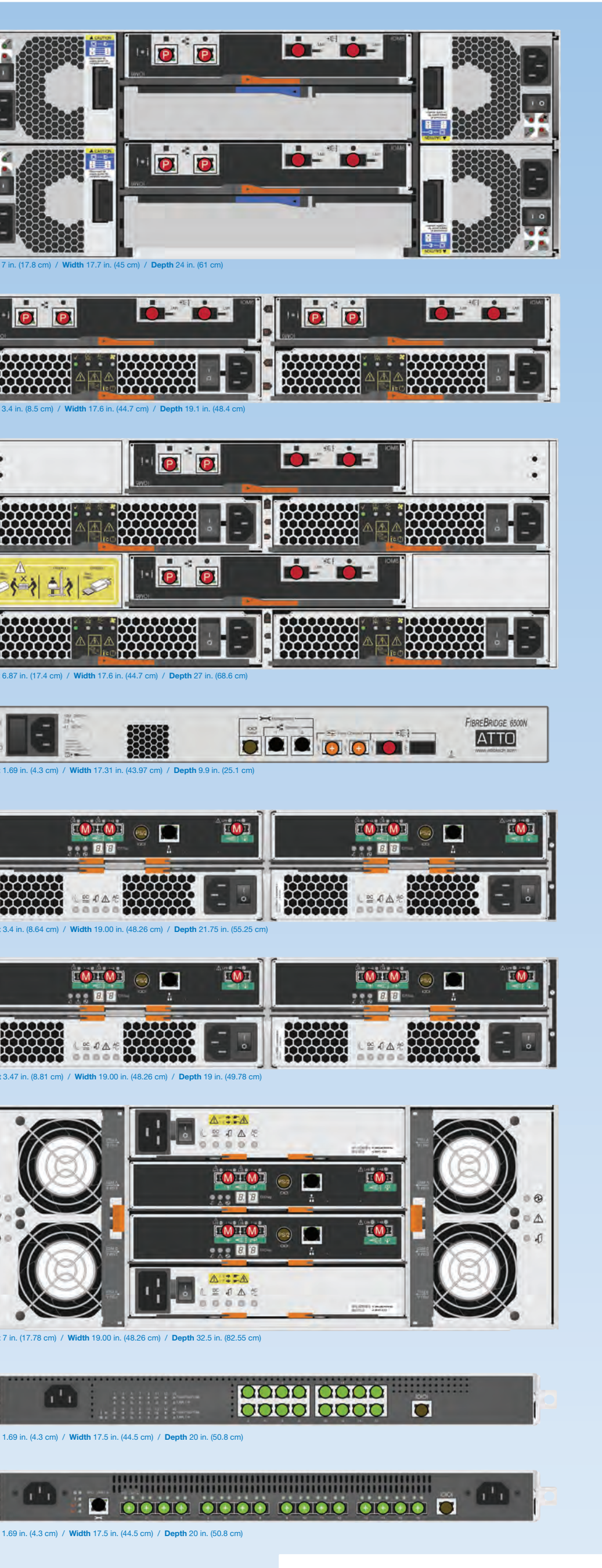
DISK SHELVES

FAS-Series Disk Shelves				
Model	DS4243	DS4246	DS2246	DS4486
Front View				
Max Drive Quantity	24	24	24	48
Drive Form Factor	3.5" large form factor	3.5" large form factor	2.5" small form factor	3.5" large form factor
Rack Units	4U	4U	2U	4U
Weight (Empty / Loaded)	53.7 lb (24.4 kg) 112.8 lb (51.3 kg)	53.7 lb (24.4 kg) 112.8 lb (51.3 kg)	34.8 lb (15.7 kg) 58.9 lb (26.6 kg)	85 lb (38.7 kg) 150 lb (68.2 kg)
Amps (Typical / Worst-Case)	1.71A / 1.08A @100V 0.86A / 0.54A @200V	1.71A / 1.08A @100V 0.86A / 0.54A @200V	1.71A / 1.08A @100V 0.86A / 0.54A @200V	1.71A / 1.08A @100V 0.86A / 0.54A @200V
BTUs/hr (Typical / Worst-Case)	1584 / 1080 @100V 1440 / 1000 @200V	1584 / 1080 @100V 1440 / 1000 @200V	1584 / 1080 @100V 1440 / 1000 @200V	1584 / 1080 @100V 1440 / 1000 @200V
Empty Shelf	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
AC Power Supply	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
DC Power Supply	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
QuickStart Part Numbers	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
QuickStart Part Numbers	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
Min ONTAP Release	7.3.2, 8.0, 8.1, 8.2	8.1.1, 8.2	7.3.4, 8.0, 8.1, 8.2	8.1.1, 8.2



E-Series Disk Shelves

Model	DE1600	DE5600	DE6600
Front View			
Maximum Drive Quantity	12	24	60
Drive Form Factor	3.5" large form factor	2.5" small form factor	2.5" and 3.5" (see last column for details)
Rack Units	2U	2U	4U
Weight (Empty / Loaded)	48.9 lb (22.0 kg) 59.3 lb (26.9 kg)	47.7 lb (21.7 kg) 57.2 lb (25.9 kg)	231.2 lb (105.2 kg) 231.2 lb (105.2 kg)
Amps (Typical / Worst-Case)	1.71A / 1.08A @100V 0.86A / 0.54A @200V	1.71A / 1.08A @100V 0.86A / 0.54A @200V	1.71A / 1.08A @100V 0.86A / 0.54A @200V
BTUs/hr (Typical / Worst-Case)	1584 / 1080 @100V 1440 / 1000 @200V	1584 / 1080 @100V 1440 / 1000 @200V	1584 / 1080 @100V 1440 / 1000 @200V
Empty Shelf	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
AC Power Supply	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
DC Power Supply	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
QuickStart Part Numbers	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
QuickStart Part Numbers	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)	X350A-RS (24 PSU) X350A-RS (24 PSU)
Min ONTAP Release	7.86	7.86	7.86



DATA CABLES

Part Number	Begin	End	Length	Notes
X350A-RS	SC	SC	5m	Optical cable for SANtricity
X350A-RS	SC	SC	10m	Optical cable for SANtricity
X350A-RS	SC	SC	15m	Optical cable for SANtricity
X350A-RS	SC	SC	20m	Optical cable for SANtricity
X350A-RS	SC	SC	25m	Optical cable for SANtricity
X350A-RS	SC	SC	30m	Optical cable for SANtricity
X350A-RS	SC	SC	35m	Optical cable for SANtricity
X350A-RS	SC	SC	40m	Optical cable for SANtricity
X350A-RS	SC	SC	45m	Optical cable for SANtricity
X350A-RS	SC	SC	50m	Optical cable for SANtricity
X350A-RS	SC	SC	55m	Optical cable for SANtricity
X350A-RS	SC	SC	60m	Optical cable for SANtricity
X350A-RS	SC	SC	65m	Optical cable for SANtricity
X350A-RS	SC	SC	70m	Optical cable for SANtricity
X350A-RS	SC	SC	75m	Optical cable for SANtricity
X350A-RS	SC	SC	80m	Optical cable for SANtricity
X350A-RS	SC	SC	85m	Optical cable for SANtricity
X350A-RS	SC	SC	90m	Optical cable for SANtricity
X350A-RS	SC	SC	95m	Optical cable for SANtricity
X350A-RS	SC	SC	100m	Optical cable for SANtricity
X350A-RS	SC	SC	105m	Optical cable for SANtricity
X350A-RS	SC	SC	110m	Optical cable for SANtricity
X350A-RS	SC	SC	115m	Optical cable for SANtricity
X350A-RS	SC	SC	120m	Optical cable for SANtricity
X350A-RS	SC	SC	125m	Optical cable for SANtricity
X350A-RS	SC	SC	130m	Optical cable for SANtricity
X350A-RS	SC	SC	135m	Optical cable for SANtricity
X350A-RS	SC	SC	140m	Optical cable for SANtricity
X350A-RS	SC	SC	145m	Optical cable for SANtricity
X350A-RS	SC	SC	150m	Optical cable for SANtricity
X350A-RS	SC	SC	155m	Optical cable for SANtricity
X350A-RS	SC	SC	160m	Optical cable for SANtricity
X350A-RS	SC	SC	165m	Optical cable for SANtricity
X350A-RS	SC	SC	170m	Optical cable for SANtricity
X350A-RS	SC	SC	175m	Optical cable for SANtricity
X350A-RS	SC	SC	180m	Optical cable for SANtricity
X350A-RS	SC	SC	185m	Optical cable for SANtricity
X350A-RS	SC	SC	190m	Optical cable for SANtricity
X350A-RS	SC	SC	195m	Optical cable for SANtricity
X350A-RS	SC	SC	200m	Optical cable for SANtricity
X350A-RS	SC	SC	205m	Optical cable for SANtricity
X350A-RS	SC	SC	210m	Optical cable for SANtricity
X350A-RS	SC	SC	215m	Optical cable for SANtricity
X350A-RS	SC	SC	220m	Optical cable for SANtricity
X350A-RS	SC	SC	225m	Optical cable for SANtricity
X350A-RS	SC	SC	230m	Optical cable for SANtricity
X350A-RS	SC	SC	235m	Optical cable for SANtricity
X350A-RS	SC	SC	240m	Optical cable for SANtricity
X350A-RS	SC	SC	245m	Optical cable for SANtricity
X350A-RS	SC	SC	250m	Optical cable for SANtricity
X350A-RS	SC	SC	255m	Optical cable for SANtricity
X350A-RS	SC	SC	260m	Optical cable for SANtricity
X350A-RS	SC	SC	265m	Optical cable for SANtricity
X350A-RS	SC	SC	270m	Optical cable for SANtricity
X350A-RS	SC	SC	275m	Optical cable for SANtricity
X350A-RS	SC	SC	280m	Optical cable for SANtricity
X350A-RS	SC	SC	285m	Optical cable for SANtricity
X350A-RS	SC	SC	290m	Optical cable for SANtricity
X350A-RS	SC	SC	295m	Optical cable for SANtricity
X350A-RS	SC	SC	300m	Optical cable for SANtricity
X350A-RS	SC	SC	305m	Optical cable for SANtricity
X350A-RS	SC	SC	310m	Optical cable for SANtricity
X350A-RS	SC	SC	315m	Optical cable for SANtricity
X350A-RS	SC	SC	320m	Optical cable for SANtricity
X350A-RS	SC	SC	325m	Optical cable for SANtricity
X350A-RS	SC	SC	330m	Optical cable for SANtricity
X350A-RS	SC	SC	335m	Optical cable for SANtricity
X350A-RS	SC	SC	340m	Optical cable for SANtricity
X350A-RS	SC	SC	345m	Optical cable for SANtricity
X350A-RS	SC	SC	350m	Optical cable for SANtricity
X350A-RS	SC	SC	355m	Optical cable for SANtricity
X350A-RS	SC	SC	360m	Optical cable for SANtricity
X350A-RS	SC	SC	365m	Optical cable for SANtricity
X350A-RS	SC	SC	370m	Optical cable for SANtricity
X350A-RS	SC	SC	375m	Optical cable for SANtricity
X350A-RS	SC	SC	380m	Optical cable for SANtricity
X350A-RS	SC	SC	385m	Optical cable for SANtricity
X350A-RS	SC	SC	390m	Optical cable for SANtricity
X350A-RS	SC	SC	395m	Optical cable for SANtricity
X350A-RS	SC	SC	400m	Optical cable for SANtricity
X350A-RS	SC	SC	405m	Optical cable for SANtricity
X350A-RS	SC	SC	410m	Optical cable for SANtricity
X350A-RS	SC	SC	415m	Optical cable for SANtricity
X350A-RS	SC	SC	420m	Optical cable for SANtricity
X350A-RS	SC	SC	425m	Optical cable for SANtricity
X350A-RS	SC	SC	430m	Optical cable for SANtricity
X350A-RS	SC	SC	435m	Optical cable for SANtricity
X350A-RS	SC	SC	440m	Optical cable for SANtricity
X350A-RS	SC	SC	445m	Optical cable for SANtricity