

# ETERNUS Hybrid Storage Systems Comparison Chart

Legend N/A: Not Available -: Not Applicable Yes: Supported








	Entry		Mid-range		Enterprise		
	ETERNUS DX60 S4 3.5 inch base unit/2.5 inch base unit	ETERNUS DX100 S4 3.5 inch base unit/2.5 inch base unit	ETERNUS DX200 S4 3.5 inch base unit/2.5 inch base unit	ETERNUS DX500 S4	ETERNUS DX600 S4	ETERNUS DX8700 S3	ETERNUS DX8900 S3
							

## Hardware Specifications

Type	Rack mount		Rack mount		Rack mount		Rack mount		Rack mount		Rack mount		Rack mount		
	1	2	1	2	1	2	2	2	2-8	2-24					
Number of controllers															
Fibre Channel	4Gbit/s / 8Gbit/s / 16Gbit/s		4Gbit/s / 8Gbit/s / 16Gbit/s / 32Gbit/s		4Gbit/s / 8Gbit/s / 16Gbit/s / 32Gbit/s		4Gbit/s / 8Gbit/s / 16Gbit/s / 32Gbit/s		4Gbit/s / 8Gbit/s / 16Gbit/s / 32Gbit/s		4Gbit/s / 8Gbit/s / 16Gbit/s		4Gbit/s / 8Gbit/s / 16Gbit/s		
iSCSI	1Gbit/s [1000 BASE-T] / 10Gbit/s [10G BASE-T]		1Gbit/s [1000 BASE-T]		1Gbit/s [1000 BASE-T]		1Gbit/s / 10Gbit/s		1Gbit/s / 10Gbit/s		1Gbit/s / 10Gbit/s		1Gbit/s / 10Gbit/s		
SAS	6Gbit/s / 12Gbit/s		6Gbit/s / 12Gbit/s		6Gbit/s / 12Gbit/s		-		-		-		-		
FCoE	-		-		-		-		-		10Gbit/s		10Gbit/s		
Ethernet (NAS)	-		1Gbit/s / 10Gbit/s		1Gbit/s / 10Gbit/s		1Gbit/s / 10Gbit/s		1Gbit/s / 10Gbit/s		-		-		
Host interface type	CIFS [SMB 2.0]	-	-	Yes	-	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
	CIFS [SMB 2.1]	-	-	Supporting following functions.	-	Supporting following functions. - large MTU	Supporting following functions. - large MTU	Supporting following functions. - large MTU	Supporting following functions. - large MTU	Supporting following functions. - large MTU	-	-	-	-	
	CIFS [SMB 3.0]	-	-	Supporting following functions.	-	Supporting following functions. - SMB Encryption	Supporting following functions. - SMB Encryption	Supporting following functions. - SMB Encryption	Supporting following functions. - SMB Encryption	Supporting following functions. - SMB Encryption	-	-	-	-	
	NFS [NFS v2/3]	-	-	Yes	-	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
	NFS [NFS v4]	-	-	Supporting following functions. - Stateful protocol - NFSv4 ACL	-	Supporting following functions. - Stateful protocol - NFSv4 ACL -File lock	Supporting following functions. - Stateful protocol - NFSv4 ACL -File lock	Supporting following functions. - Stateful protocol - NFSv4 ACL -File lock	Supporting following functions. - Stateful protocol - NFSv4 ACL -File lock	Supporting following functions. - Stateful protocol - NFSv4 ACL -File lock	Supporting following functions. - Stateful protocol - NFSv4 ACL -File lock	-	-	-	-
	FTP	-	-	Yes	-	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
FXP	-	-	Yes	-	Yes	Yes	Yes	Yes	Yes	-	-	-	-		
Number of host interfaces	Fibre Channel 16G	2	4	2 or 4	4 or 8	2 or 4	4 or 8	4-16	4-32 (4-16 for 100V model)	4-128	4-384	-	-		
	Fibre Channel 32G	-	-	2 or 4	4 or 8	2 or 4	4 or 8	4 or 8	4-16 (4/8 for 100V model)	-	-	-	-		
	iSCSI	2	4	2 or 4	4 or 8	2 or 4	4 or 8	4 or 8	4-16 (4/8 for 100V model)	4-64	4-192	-	-		
	SAS	2	4	2 or 4	4 or 8	2 or 4	4 or 8	-	-	-	-	-	-		
	FCoE	-	-	-	-	-	-	-	-	4-64	4-192	-	-		
	Ethernet 1G (NAS)	-	-	-	8 or 16	-	8 or 16	4-16	4-32 (4-16 for 100V model)	-	-	-	-		
Ethernet 10G (NAS)	-	-	-	4 or 8	-	4 or 8	4 or 8	4-16 (4/8 for 100V model)	-	-	-	-			
Mixed host interface	-		Yes		Yes		Yes		Yes		Yes		Yes		
Maximum system memory	8GB		32GB		64GB		256GB		512GB		1,024GB		6,144GB		
Extreme Cache (EXC) Capacity	-		-		-		1.4 - 5.6 TB (Excluding 100V model)		1.4 - 5.6 TB (Excluding 100V model)		0.7-22.4TB		0.7-67.2TB		
Extreme Cache Pool Capacity	-		800GB (Only SSD400GB)		800GB (Only SSD400GB)		3.2TB (Only SSD400GB)		3.2TB (Only SSD400GB)		12.8TB		38.4TB		
Number of Fronted Enclosure	-		-		-		-		-		1		1		
Number of DEs(Drive Enclosure)	Max. 3		Max. 10 (2.5+3.5DE) Only 2.5 DE: Max.5 Only 3.5 DE: Max.10		Max. 10 (2.5+3.5DE+HD-DE) Only 2.5 DE: Max.5 Only 3.5 DE: Max.10 Only HD-DE: Max.2		Max. 10 (2.5+3.5DE) Only 2.5 DE: Max.10 Only 3.5 DE: Max.10		Max. 10 (2.5+3.5DE+HD-DE) Only 2.5 DE: Max.10 Only 3.5 DE: Max.10 Only HD-DE: Max. 4		Max. 22 (2.5+3.5DE+HD-DE) Only 2.5 DE: Max.22 Only 3.5 DE: Max.22 Only HD-DE: Max.8		Max. 44 (2.5+3.5DE+HD-DE) Only 2.5 DE: Max.44 Only 3.5 DE: Max.44 Only HD-DE: Max.16		
Mixed 2.5/3.5/HD-DE	2.5"DE/3.5"DE		2.5"DE/3.5"DE		2.5/3.5/HD-DE		2.5"DE/3.5"DE		2.5/3.5/HD-DE		2.5/3.5		2.5/3.5		
Reverse cabling of DE	Yes		Yes		Yes		Yes		Yes		Yes		Yes		
Number of Disk drives	per system <sup>*1</sup>	Max. 96 Max. no. of SSDs is eight		Max. 144		Max. 264		Max. 528		Max. 1056		Max. 1,536		Max. 4,608	
	per 2.5 DE	24		24		24		24		24		24		24	
	per 3.5 DE	12		12		12		12		12		12		12	
	per High Density DE (HD-DE)	-		60		60		60		60		-		-	

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		Entry		Mid-range		Enterprise										
		ETERNUS DX60 S4	ETERNUS DX100 S4	ETERNUS DX200 S4	ETERNUS DX500 S4	ETERNUS DX600 S4	ETERNUS DX8700 S3	ETERNUS DX8900 S3								
		3.5 inch base unit/2.5 inch base unit		3.5 inch base unit/2.5 inch base unit		3.5 inch base unit/2.5 inch base unit										
																
Supported disk drives	2.5" CE/DE	SAS	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF [Advanced Format disk drive]) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)	900GB (15,000rpm) 600GB (15,000rpm) 300GB (15,000rpm) 1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm) 600GB (10,000rpm) 300GB (10,000rpm)						
		SAS (SED)	-	1.2TB (10,000rpm)	1.2TB (10,000rpm)	1.2TB (10,000rpm)	1.2TB (10,000rpm)	1.2TB (10,000rpm)	1.2TB (10,000rpm)	1.2TB (10,000rpm)	1.2TB (10,000rpm)					
		Nearline SAS	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)	2TB (7,200rpm, AF) 1TB (7,200rpm)					
		Enterprise SSD	3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB	15.36TB 7.68TB 3.84TB 1.92TB 960GB 400GB					
		Enterprise SSD (SED)	-	1.92TB	1.92TB	1.92TB	1.92TB	1.92TB	1.92TB	1.92TB	1.92TB					
	3.5" CE/DE	SAS	1.8TB (10,000rpm, AF) 1.2TB (10,000rpm) 900GB (10,000rpm)	-	-	-	-	-	-	-						
		Nearline SAS	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)						
		Nearline SAS (SED)	-	4TB (7,200rpm)	4TB (7,200rpm)	4TB (7,200rpm)	4TB (7,200rpm)	4TB (7,200rpm)	4TB (7,200rpm)	4TB (7,200rpm)						
		Enterprise SSD	400GB	3.84TB 1.92TB 960GB 400GB	3.84TB 1.92TB 960GB 400GB	3.84TB 1.92TB 960GB 400GB	3.84TB 1.92TB 960GB 400GB	3.84TB 1.92TB 960GB 400GB	3.84TB 1.92TB 960GB 400GB	3.84TB 1.92TB 960GB 400GB						
		Enterprise SSD (SED)	-	1.92TB	1.92TB	1.92TB	1.92TB	1.92TB	1.92TB	1.92TB						
	HD-DE	SAS	-	-	1.2TB (10,000rpm)	-	1.2TB (10,000rpm)	-	1.2TB (10,000rpm)	-						
		Nearline SAS	-	-	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	-	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	-	10TB (7,200rpm, AF) 8TB (7,200rpm, AF) 6TB (7,200rpm, AF) 4TB (7,200rpm) 2TB (7,200rpm)	-						
		Nearline SAS (SED)	-	-	4TB (7,200rpm)	-	4TB (7,200rpm)	-	4TB (7,200rpm)	-						
		Enterprise SSD	-	-	3.84TB 1.92TB	-	3.84TB 1.92TB	-	3.84TB 1.92TB	-						
	Maximum storage capacity (with expansion, depending on drive type)		480TB		2,212TB		4,055TB		8,110TB		16,220TB		23,593TB		70,779TB	
	Dimensions	Width	482mm		482mm		482mm		482mm		482mm		482mm		482mm	
Depth		2.5" DE: 540mm 3.5" DE: 560mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm HD-DE: 980mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm HD-DE: 980mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm HD-DE: 980mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm HD-DE: 980mm 2.5" CE: 645mm 3.5" CE: 670mm	2.5" DE: 540mm 3.5" DE: 560mm CE: 805mm	2.5" DE: 540mm 3.5" DE: 560mm CE: 805mm	2.5" DE: 540mm 3.5" DE: 560mm CE: 805mm	2.5" DE: 540mm 3.5" DE: 560mm CE: 805mm	2.5" DE: 540mm 3.5" DE: 560mm CE: 805mm	2.5" DE: 540mm 3.5" DE: 560mm CE: 805mm	
Height		CE: 88mm [2U] DE: 88mm [2U]	CE: 88mm [2U] DE: 88mm [2U]	CE: 88mm [2U] DE: 88mm [2U]	CE: 88mm [2U] DE: 88mm [2U] HD-DE: 176mm [4U]	CE: 88mm [2U] DE: 88mm [2U]	CE: 88mm [2U] DE: 88mm [2U] HD-DE: 176mm [4U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	DE: 88mm [2U] HD-DE: 176mm [4U] CE: 133mm [3U]	
Weight		2.5"DE/3.5"DE:35kg CE:35kg	2.5"DE/3.5"DE:35kg CE:35kg	2.5"DE/3.5"DE:35kg CE:35kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:35kg	2.5"DE/3.5"DE:35kg CE:35kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:35kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	2.5"DE/3.5"DE:35kg HD-DE:100kg CE:54kg	
Maximum weight		140kg		385kg		470kg		994kg		1,934kg		2,520kg		7,432kg		
AC power	Voltage	AC100V-120V/AC200-240V		AC100V-120V/AC200-240V		AC100V-120V/AC200-240V		AC100V-120V/AC200-240V		AC100V-120V/AC200-240V		AC200-240V		AC200-240V		
	Phase	Single phase		Single phase		Single phase		Single phase		Single phase		Single phase		Single phase		
	Frequency	50Hz or 60Hz		50Hz or 60Hz		50Hz or 60Hz		50Hz or 60Hz		50Hz or 60Hz		50Hz or 60Hz		50Hz or 60Hz		
Maximum power consumption	AC100-120V	1,900 [W]		4,170 [W]		6,720 [W]		13,210 [W]		26,320 [W]		-		-		
	AC200-240V	1,890 [W]		4,170 [W]		6,720 [W]		13,320 [W]		26,520 [W]		32,770 [W]		97,520 [W]		
Power plug type	AC100-120V	NEMA 5-15P		NEMA 5-15P		NEMA 5-15P		NEMA 5-15P		NEMA 5-15P		-		-		
	AC200-240V	NEMA L6-15P NEMA L6-20P (ACS) NEMA L6-30P (ACS)		NEMA L6-15P NEMA L6-20P (ACS) NEMA L6-30P (ACS)		NEMA L6-15P NEMA L6-20P (ACS) NEMA L6-30P (ACS)		NEMA L6-15P NEMA L6-20P (ACS) NEMA L6-30P (ACS)		NEMA L6-15P NEMA L6-20P (ACS) NEMA L6-30P (ACS)		NEMA L6-30P		NEMA L6-30P		

# ETERNUS Hybrid Storage Systems Comparison Chart

V20:  
2017/11/13

Legend N/A: Not Available -: Not Applicable Yes: Supported








	Entry		Mid-range				Enterprise	
	ETERNUS DX60 S4 <small>3.5 inch base unit/2.5 inch base unit</small>	ETERNUS DX100 S4 <small>3.5 inch base unit/2.5 inch base unit</small>	ETERNUS DX200 S4 <small>3.5 inch base unit/2.5 inch base unit</small>	ETERNUS DX500 S4	ETERNUS DX600 S4	ETERNUS DX8700 S3	ETERNUS DX8900 S3	
								

## Functional Specifications

		ETERNUS DX60 S4	ETERNUS DX100 S4	ETERNUS DX200 S4	ETERNUS DX500 S4	ETERNUS DX600 S4	ETERNUS DX8700 S3	ETERNUS DX8900 S3	
<b>Data Protection</b>									
RAID levels	RAID0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	RAID1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	RAID1+0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	RAID5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	RAID5+0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	RAID6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Data block guard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Data encryption	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Cache protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Disk drive patrol	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Global hot spare	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Dedicated hot spare	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Fast recovery	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Storage Cluster	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
NAS Data Store	Maximum capacity	-	-	256TB	-	512TB	512TB	1024TB	-
	No. of NAS Volumes	-	-	4 (2 x operations, 2 x backups)	-	8 (4 x operations, 4 x backups)	8 (4 x operations, 4 x backups)	16 (8 x operations, 8 x backups)	-
	Block size	-	-	8, 32, or 256KB	-	8, 32, or 256KB	8, 32, or 256KB	8, 32, or 256KB	-
<b>Copy</b>									
Advanced Copy function	Available Copy under SAN environment	EC/OPC/QuickOPC/ SnapOPC/SnapOPC+	EC/OPC/QuickOPC/ SnapOPC/SnapOPC+	EC/OPC/QuickOPC/ SnapOPC/SnapOPC+	EC/OPC/QuickOPC/ SnapOPC/SnapOPC+	EC/OPC/QuickOPC/ SnapOPC/SnapOPC+	EC/OPC/QuickOPC/ SnapOPC/SnapOPC+	EC/OPC/QuickOPC/ SnapOPC/SnapOPC+	
	Available Copy under NAS environment	-	-	QuickOPC/SnapOPC+	-	QuickOPC/SnapOPC+	QuickOPC/SnapOPC+	QuickOPC/SnapOPC+	
	Copy management software	ETERNUS SF AdvancedCopy Manager/ ETERNUS SF Express (SnapOPC+only) ETERNUS VSS Hardware Provider	ETERNUS SF AdvancedCopy Manager/ ETERNUS SF Express (SnapOPC+only) ETERNUS VSS Hardware Provider	ETERNUS SF AdvancedCopy Manager/ ETERNUS SF Express (SnapOPC+only) ETERNUS VSS Hardware Provider	ETERNUS SF AdvancedCopy Manager/ ETERNUS SF Express (SnapOPC+only) ETERNUS VSS Hardware Provider	ETERNUS SF AdvancedCopy Manager/ ETERNUS VSS Hardware Provider	ETERNUS SF AdvancedCopy Manager/ ETERNUS VSS Hardware Provider	ETERNUS SF AdvancedCopy Manager/ ETERNUS VSS Hardware Provider	ETERNUS SF AdvancedCopy Manager/ ETERNUS VSS Hardware Provider
Remote Advanced Copy function	Copy management software	-	REC (both SAN and copied NAS volume) ETERNUS SF AdvancedCopy Manager	REC (both SAN and copied NAS volume) ETERNUS SF AdvancedCopy Manager	REC (both SAN and copied NAS volume) ETERNUS SF AdvancedCopy Manager	REC (both SAN and copied NAS volume) ETERNUS SF AdvancedCopy Manager	REC (both SAN and copied NAS volume) ETERNUS SF AdvancedCopy Manager	REC (both SAN and copied NAS volume) ETERNUS SF AdvancedCopy Manager	
	Copy management software	-	ETERNUS SF AdvancedCopy Manager	ETERNUS SF AdvancedCopy Manager	ETERNUS SF AdvancedCopy Manager	ETERNUS SF AdvancedCopy Manager	ETERNUS SF AdvancedCopy Manager	ETERNUS SF AdvancedCopy Manager	
<b>Data Migration</b>									
Online Storage Migration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Offline Storage Migration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Non-disruptive Storage Migration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Energy saving</b>									
Eco-mode (MAID)	Management software for Eco-mode	ETERNUS SF Storage Cruiser/ ETERNUS SF Express	ETERNUS SF Storage Cruiser/ ETERNUS SF Express	ETERNUS SF Storage Cruiser/ ETERNUS SF Express	ETERNUS SF Storage Cruiser	ETERNUS SF Storage Cruiser	ETERNUS SF Storage Cruiser	ETERNUS SF Storage Cruiser	

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		3.5 inch base unit/2.5 inch base unit		3.5 inch base unit/2.5 inch base unit		3.5 inch base unit/2.5 inch base unit				
										
Virtualization										
Thin Provisioning function	Management software for Thin Provisioning	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes
		-	ETERNUS SF Storage Cruiser/ETERNUS SF Express	-	ETERNUS SF Storage Cruiser/ETERNUS SF Express	-	ETERNUS SF Storage Cruiser/ETERNUS SF Express	ETERNUS SF Storage Cruiser	ETERNUS SF Storage Cruiser	ETERNUS SF Storage Cruiser
Thin Provisioning	Number of pool (Thin Provisioning Pool+Flexible Tier Sub Pool)	-	48	-	72	-	132	256	256	256
De-duplication *2		-	-	-	-	Yes	Yes	Yes	Yes	Yes
Compression *2		-	-	-	-	Yes	Yes	Yes	Yes	Yes
Automated tiering (Flexible tier)		-	N/A	Yes (with Storage Cruiser Optimization Option)	N/A	Yes (with Storage Cruiser Optimization Option)	Yes (with Storage Cruiser Optimization Option)	Yes (with Storage Cruiser Optimization Option)	Yes (with Storage Cruiser Optimization Option)	Yes (with Storage Cruiser Optimization Option)
Dynamic configuration										
RAID migration		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Logical Device Expansion(LDE)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LUN concatenation		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance										
Performance tuning	Stripe size	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Cache partitioning	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Wide striping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quality of Service		-	(with Storage Cruiser Quality of Service Management Option)	(with Storage Cruiser Quality of Service Management Option)	(with Storage Cruiser Quality of Service Management Option)	(with Storage Cruiser Quality of Service Management Option)	(with Storage Cruiser Quality of Service Management Option)	(with Storage Cruiser Quality of Service Management Option)	(with Storage Cruiser Quality of Service Management Option)	(with Storage Cruiser Quality of Service Management Option)
I/O offload		-	-	-	-	-	-	-	-	-
Security Features										
HTTPS(SSL)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSH		Yes(v2 only)	Yes(v2 only)	Yes(v2 only)	Yes(v2 only)	Yes(v2 only)	Yes(v2 only)	Yes(v2 only)	Yes(v2 only)	Yes(v2 only)
iSCSI		CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP	CHAP, Bidirectional CHAP
Authentication server	RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Role based access control		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audit log		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Key management server linkage		N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Serviceability										
Non-disruptive firmware upgrade		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Easy firmware upgrade	Yes(only Update & Reboot Mode)	Yes	Yes(only Update & Reboot Mode)	Yes	Yes(only Update & Reboot Mode)	Yes	Yes	Yes	Yes	Yes
Hot part replace		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hot part expansion		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Field model upgrade		Yes	Yes	Yes	N/A	Yes	N/A	Yes	-	-
System Management										
Remote installation		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

This matrix is correct as of dated right above. Contents are subject to change without notice.

\*1: With a maximum number of 2.5" disk drives installed.

\*2: Deduplication/Compression is not supported when Unified function is enabled.