

# EonStor DS Matrix

EonStor DS Model		1000 series		2000 series	3000 series		4000 series		
		1000	1000T	2000	3000	3000T	4000	4000U	
Position		Moderate performance storage solution (Entry)			High performance solution (Entry to Mid-range)		Extreme performance solution (Mid-range)		
Performance	IOPS (Read)	75K	120K	190K	320K	350K	350K	600K	
	Database	1000 users	2000 users	3000 users	100K transaction per second	200K transaction per second		300K transaction per second	
	VDI	250 VDI	500 VDI	1,000 VDI	2,000 VDI	3,000 VDI		4,000 VDI	
	Exchange (mail)	1,000	2,000	4,000	6,000	10,000	20,000	30,000	
	MB/s(Read/Write)	5,500/1,900			5,500/2,200		11,000/3,800	11,000/5,500	
	Media & Entertainment(Uncompress)	HD format: 30*Read, 10* Write streams			2K format: 8*Read or 4*Write streams		4K format: 8*Read or 2*Write streams	4K format: 8*Read or 5*Write streams	
	Surveillance HD, H.264 : 4.5 Mb/s Retention period : 30 days	500 IP cameras			1,000 IP cameras		1,200 IP cameras		
	Backup	324 /324 drives (LFF/SFF)			360 /360 drives (LFF/SFF)		436 /444 drives (LFF/SFF)		
Form factor	2U 12-bay		✓			✓		✓	
	2U 24-bay		✓			✓		✓	
	3U 16-bay		✓			✓		-	
	4U 24-bay		✓			✓		-	
	4U 48-bay		-			✓		-	
	4U 60-bay		-			✓		-	
Host Connectivity (Redundant Model)	Host board design	One host board per controller				Dual host board per controller			
	FC 16Gb/s	Max. 4 Ports				Max. 8 Ports			
	FC 8Gb/s	Max. 8 Ports				Max. 16 Ports			
	iSCSI 10Gb/s (SFP+)	Max. 4 Ports				Max. 16 Ports			
	iSCSI 10Gb/s (RJ-45)	Max. 4 Ports				-			
	iSCSI 1Gb/s	Max. 16 Ports			Max. 16 Ports (12, 16, 24-bay)			Max. 4 Ports	
	SAS 12Gb/s	Max. 4 Ports			Max. 4 Ports			Max. 8 Ports	
SAS 6Gb/s	Max. 4 Ports			Max. 4 Ports			-		
Total Memory (per controller)	2GB	1x 2GB DDR3 (Default)				-			
	4GB	2x 2GB DDR3				1x 4GB DDR4 (Default)			
	8GB	2x 4GB DDR3				2x 4GB DDR4			
	16GB	2x 8GB DDR3				2x 8GB DDR4			
	32GB	-				2x 16GB DDR4			
	64GB	-				4x 16GB DDR4			
Data Service	Local Replication (Standard license is default included and advanced is an optional license)	<b>Snapshot</b> Snapshot images per source volume Standard License: 64 / Advanced License: 256 Snapshot images per system Standard License: 128 / Advanced License: 4096							
		<b>Volume Copy/Mirror</b> Source volumes per system Standard License: 16 / Advanced License: 32 Replication pairs per source volume Standard License: 4 / Advanced License: 8 Replication pairs per system Standard License: 64 / Advanced License: 256							
	Thin Provisioning (default included)	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space							
	Self-encrypting drives	Unique factory encryption secures data plus makes deletion simple and complete							
	Remote Replication (optional license)	Replication per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64							
	SSD Cache (optional license)	Accelerating data access for random read-intensive environments, such as OLTP Supports up to four SSDs per controller Recommended DIMM capacity per controller for SSD Cache pool: DRAM:2GB Max SSD Cache Pool Size: 150GB      DRAM:32GB Max SSD Cache Pool Size: 3,200GB DRAM:4GB Max SSD Cache Pool Size: 400GB      DRAM:64GB Max SSD Cache Pool Size: 6,400GB DRAM:8GB Max SSD Cache Pool Size: 800GB							
Intelligent Drive Recovery(IDR)	The combined effect of auto detect-clone-replace protection by default-enabled S.M.A.R.T./Media Scan/RAID 6 to provided unparalleled protection								