



Infotrend®
EonStor DS



EonStor DS Product Matrix

2012

EonStor DS is designed to support critical applications for small and medium businesses. It features redundant, hot-swappable hardware components, CacheSafe technology and full RAID protection to deliver high fault-tolerant capability. To protect data from even more critical threats, EonStor DS features local and remote replication capabilities. By configuring the scheduler in SANWatch, users can automate replication tasks, such as taking snapshots, data copying and source/target synchronizing. In the event of human errors or data volume failure, differential and full copies for critical data sets can be leveraged to quickly recover data and restart service. In addition, thin provisioning enables users to optimize capacity utilization and minimize investments in large and underutilized data volumes.



LOCAL REPLICATION

SNAPSHOT

- Copy-on-write technology to create point-in-time differential copies without disrupting online applications
- Restore deleted files or roll data volume back in seconds based on space-saving recovery points

VOLUME COPY/MIRROR

- Create independent point-in-time and mirrored full data copies without downtime
- Allow production data to be immediately shared by secondary applications, such as testing, data mining and tape back-up
- Restart service in minutes with minimized data loss when the source data volume fatally fails

REMOTE REPLICATION

- Deploy full data copies across storage systems at different sites, either in synchronous or asynchronous mode
- Leverage disk-based remote copies to quickly restart services in the event of source data failures

THIN PROVISIONING



- Allocate capacity dynamically when data writes happen to minimize expenses wasted on large and underutilized data volumes





SPECIFICATIONS		
LOCAL REPLICATION ¹	Standard ¹	Advanced ²
Snapshot		
Maximum Number of Snapshot Images for a Source Volume	64	256
Maximum Number of Snapshot Images in a System	1024	4096
Volume Copy / Mirror		
Maximum Number of Source Volumes in a System	16	32
Maximum Number of Replication Pairs for a Source Volume	4	8
Maximum Number of Replication Pairs in a System	64	256
REMOTE REPLICATION²		
Maximum Number of Source Volumes in a System		16
Maximum Number of Replication Pairs for a Source Volume		4
Maximum Number of Replication Pairs in a System		64
THIN PROVISIONING²		





1. Standard functions come default with EonStor DS systems. Advanced functions are available with optional license.





2. Available with optional license.

EonStor DS System Specifications

FC to FC Head	
Product Image	 
Model	ESDS FF-R4031-6 ESDS FF-S4031-6
Redundant Controller	Yes Single upgradable to redundant
Form Factor	1U Rackmount 1U Rackmount
Drive Bays	-
Max. Number of Drives	224 (FC 4G or SATA 3Gb/s) 224 (FC 4G or SATA 3Gb/s)
RAID Engine	ASIC400 ASIC400
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	6CH, 4G FC with Hub function (2 SFP for each channel) CH0, 1: Host Channel, CH2, 3: Drive Channel
Drive Channel	CH4, 5: User Configurable as Drive or Host Channel
Expansion Channel	
Cache Memory (per Controller)	1GB - 2GB DDR 1GB - 2GB DDR
Cache Backup (BBU or CBM)*2	BBU BBU
Redundant Power Supply	Yes Yes
Redundant Fan Modules	Yes Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1

FC to FC RAID System				
Product Image	   			
Model	ESDS F16F-R4031-6 ESDS F16F-S4031-6 ESDS F16F-R4840 ESDS F16F-S4840			
Redundant Controller	Yes Single upgradable to redundant Yes Single upgradable to redundant			
Form Factor	3U Rackmount 3U Rackmount 3U Rackmount 3U Rackmount			
Drive Bays	16 16 16 16			
Max. Number of Drives	224*4 224*4 112 112			
RAID Engine	ASIC400 ASIC400 ASIC667 ASIC667			
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60			
Host Channel	6CH, 4G FC with Hub function (2 SFP for each channel) CH0, 1: Host Channel CH2, 3: Drive Channel	4CH, 8G FC, 4 x SFP	2CH, 8G FC, 2 x SFP	
Drive Channel	CH4, 5: User Configurable as Drive or Host Channel	4G FC	4G FC	
Expansion Channel		4CH, 4G FC, 4 x SFP	4CH, 4G FC, 4 x SFP	
Cache Memory (per Controller)	1GB - 2GB DDR 1GB - 2GB DDR	1GB - 4GB DDR-II	1GB - 4GB DDR-II	
Cache Backup (BBU or CBM)*2	BBU BBU	CBM	CBM	
Redundant Power Supply	Yes Yes	Yes Yes	Yes Yes	
Redundant Fan Modules	Yes Yes	Yes Yes	Yes Yes	
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

FC to SAS RAID System				
Product Image	   			
Model	ESDS S48F-R2842-6 ESDS S48F-G2842-6 ESDS S24F-R2840-4 ESDS S24F-G2840-4			
Redundant Controller	Yes No Yes No			
Form Factor	4U Rackmount 4U Rackmount 4U Rackmount 4U Rackmount			
Drive Bays	48 48 24 24			
Max. Number of Drives	240 240 104 104			
RAID Engine	ASIC667 ASIC667 ASIC667 ASIC667			
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60			
Host Channel	8CH, 8G FC, 8 x SFP 4CH, 1Gb Ethernet, 4 x (RJ-45)	4CH, 8G FC, 4 x SFP 2CH, 1Gb Ethernet, 2 x (RJ-45)	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Redundant Fan Modules	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

FC to SAS RAID System				
Product Image	   			
Model	ESDS S24F-R1840-4 ESDS S24F-G1840-4 ESDS S24F-R1440 ESDS S24F-G1440			
Redundant Controller	Yes No Yes No			
Form Factor	4U Rackmount 4U Rackmount 4U Rackmount 4U Rackmount			
Drive Bays	24 24 24 24			
Max. Number of Drives	104 104 104 104			
RAID Engine	ASIC667 ASIC667 ASIC667 ASIC667			
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60			
Host Channel	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP	4CH, 4G FC, 4 x SFP	2CH, 4G FC, 2 x SFP
Drive Channel	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	CBM	CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Redundant Fan Modules	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

* Models vary by region.





* 1. SANWatch Management Suite is supported on ASIC400 or later models.





* 2. CBM contains BBU and Flash module.





* 3. 96 (SATA-II)+16(FC 4G) or 112 (FC 4G)





* 4. 208 (SATA-II)+16(FC 4G) or 224 (FC 4G)

EonStor DS System Specifications

FC to SAS RAID System				
Product Image				
Model	ESDS S16F-R2842-6	ESDS S16F-G2842-6	ESDS S16F-R2840-4	ESDS S16F-G2840-4
Redundant Controller	Yes	No	Yes	No
Form Factor	3U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount
Drive Bays	16	16	16	16
Max . Number of Drives	112	112	112	112
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, 8G FC, 8 x SFP / 4CH, 1Gb Ethernet, 4 x (RJ-45)	4CH, 8G FC, 4 x SFP / 2CH, 1Gb Ethernet, 2 x (RJ-45)	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP
Drive Channel	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

FC to SAS RAID System				
Product Image				
Model	ESDS S16F-R1840-4	ESDS S16F-G1840-4	ESDS S16F-R1440	ESDS S16F-G1440
Redundant Controller	Yes	No	Yes	No
Form Factor	3U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount
Drive Bays	16	16	16	16
Max . Number of Drives	112	112	112	112
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP	4CH, 4G FC, 4 x SFP	2CH, 4G FC, 2 x SFP
Drive Channel	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	CBM	CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

FC to SAS RAID System				
Product Image				
Model	ESDS S12F-R2840N	ESDS S12F-S2840N	ESDS S12F-R2840-4	ESDS S12F-G2840-4
Redundant Controller	Yes	Single upgradable to redundant	Yes	No
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	12	12	12	12
Max . Number of Drives	84	84	84	84
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			





FC to SAS RAID System				
Product Image				
Model	ESDS S12F-R1840-4	ESDS S12F-G1842-4	ESDS S12F-R1440	ESDS S12F-G1440
Redundant Controller	Yes	No	Yes	No
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	12	12	12	12
Max . Number of Drives	84	84	84	84
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP	4CH, 4G FC, 4 x SFP	2CH, 4G FC, 2 x SFP
Drive Channel	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	CBM	CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			





* Models vary by region.





* 1. SANWatch Management Suite is supported on ASIC400 or later models.





* 2. CBM contains BBU and Flash module.

EonStor DS System Specifications

SAS to SAS RAID System				
Product Image				
Model	ESDS S24S-G2240	ESDS S24S-G2240-4	ESDS S16S-R2242-4	ESDS S16S-G2242-4
Redundant Controller	Yes	No	Yes	No
Form Factor	4U Rackmount	4U Rackmount	3U Rackmount	3U Rackmount
Drive Bays	24	24	16	16
Max . Number of Drives	104	104	112	112
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	2CH, SAS 6Gb/s 4x 2x (SFF-8088)	4CH, SAS 6Gb/s 4x 4x (SFF-8088)	4CH, SAS 6Gb/s 4x, 4x (SFF-8088) 4CH, 1Gb Ethernet, 4x (RJ-45)	2CH, SAS 6Gb/s 4x, 2x (SFF-8088) 2CH, 1Gb Ethernet, 2x (RJ-45)
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 1 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

SAS to SAS RAID System				
Product Image				
Model	ESDS S16S-R2240-4	ESDS S16S-G2240-4	ESDS S16S-R2240	ESDS S16S-G2240
Redundant Controller	Yes	No	Yes	No
Form Factor	3U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount
Drive Bays	16	16	16	16
Max . Number of Drives	112	112	112	112
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, SAS 6Gb/s 4x, 8 x (SFF-8088)	4CH, SAS 6Gb/s 4x, 4 x (SFF-8088)	4CH, SAS 6Gb/s 4x, 4 x (SFF-8088)	2CH, SAS 6Gb/s 4x, 2 x (SFF-8088)
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

SAS to SAS RAID System				
Product Image				
Model	ESDS S12S-R2240-4	ESDS S12S-G2240-4	ESDS S12S-R2240	ESDS S12S-G2240
Redundant Controller	Yes	No	Yes	No
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	12	12	12	12
Max . Number of Drives	84	84	84	84
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, SAS 6Gb/s 4x, 8 x (SFF-8088)	4CH, SAS 6Gb/s 4x, 4 x (SFF-8088)	4CH, SAS 6Gb/s 4x, 4 x (SFF-8088)	2CH, SAS 6Gb/s 4x, 2 x (SFF-8088)
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			





SAS to SAS RAID System		iSCSI to SAS RAID System		
Product Image				
Model	ESDS S04S-G2240	ESDS S24E-G2142-6	ESDS S16E-R2142-6	ESDS S16E-G2142-6
Redundant Controller	No	No	Yes	No
Form Factor	1U Rackmount	4U Rackmount	3U Rackmount	3U Rackmount
Drive Bays	4	24	16	16
Max . Number of Drives	4	104	112	112
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	2CH, SAS 6Gb/s 4x, 2 x (SFF-8088)	6CH, 1Gb Ethernet 6 x (RJ-45)	12CH, 1Gb Ethernet, 12 x (RJ-45)	6CH, 1Gb Ethernet, 6 x (RJ-45)
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	-	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			



* Models vary by region.





* 1. SANWatch Management Suite is supported on ASIC400 or later models.





* 2. CBM contains BBU and Flash module.

EonStor DS System Specifications

iSCSI to SAS RAID System				
Product Image				
Model	ESDS S16E-R2240	ESDS S16E-G2240	ESDS S16E-G1140-4	ESDS S12E-R2140-4
Redundant Controller	Yes	No	No	Yes
Form Factor	3U Rackmount	3U Rackmount	3U Rackmount	2U Rackmount
Drive Bays	16	16	16	12
Max . Number of Drives	112	112	112	84
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	4CH, 10Gb Ethernet, 4 x SFP+	4CH, 10Gb Ethernet, 2 x SFP+	4CH, 1Gb Ethernet, 4 x (RJ-45)	8CH, 1Gb Ethernet, 8 x (RJ-45)
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

iSCSI to SAS RAID System		
Product Image		
Model	ESDS S12E-G2140-4	ESDS S12E-G1140-2
Redundant Controller	No	Yes
Form Factor	2U Rackmount	2U Rackmount
Drive Bays	12	12
Max . Number of Drives	84	84
RAID Engine	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	4CH, 1Gb Ethernet, 4 x (RJ-45)	2CH, 1Gb Ethernet, 2 x (RJ-45)
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 3Gb/s
Expansion Channel	SAS 4x, 1 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes
Redundant Fan Modules	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1	

SAS JBOD				
Product Image				
Model	ESDS S48S-J2000-R	ESDS S48S-J2000-G	ESDS S12S-J2000-RN	ESDS S12S-J2000-SN
Redundant Controller	Yes	No	Yes	Single upgradable to redundant
Form Factor	4U Rackmount	4U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	48	48	12	12
Max . Number of Drives	48	48	12	12
RAID Engine	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
RAID Levels	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Host Channel	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 2 x (SFF-8088)	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 2 x (SFF-8088)
Drive Channel	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Expansion Channel	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Cache Memory (per Controller)	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Cache Backup (BBU or CBM)*2	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID

SAS JBOD				
Product Image				
Model	ESDS S16S-J2000-R	ESDS S16S-J2000-S	ESDS S12S-J2000-R	ESDS S12S-J2000-G
Redundant Controller	Yes	Single upgradable to redundant	Yes	No
Form Factor	3U Rackmount	3U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	16	16	12	12
Max . Number of Drives	16	16	12	12
RAID Engine	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
RAID Levels	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Host Channel	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 2 x (SFF-8088)	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 2 x (SFF-8088)
Drive Channel	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Expansion Channel	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Cache Memory (per Controller)	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Cache Backup (BBU or CBM)*2	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID

* Models vary by region.

* 1. SANWatch Management Suite is supported on ASIC400 or later models.

* 2. CBM contains BBU and Flash module.





System Overview





The EonStor DS family offers a wide range of models featuring diverse host- and drive-side connectivity types and form factors.

		IU	2U	3U	4U
iSCSI Host	iSCSI 6G SAS	ESDS B12E-R2140-4 ESDS B12E-G2140-4	ESDS S12E-R2140-4 ESDS S12E-G2140-4 ESDS B24E-R2142-6 ESDS B24E-G2142-6	ESDS S16E-R2240 ESDS S16E-G2240 ESDS S16E-R2142-6 ESDS S16E-G2142-6	ESDS S24E-G2142-6
	iSCSI 3G SAS		ESDS S12E-G1140-2	ESDS S16E-G1140-4	
SAS Host	6G SAS 6G SAS	ESDS S04S-G2240 ESDS B12S-R2240 ESDS B12S-G2240 ESDS B12S-J2000-R ESDS B12S-J2000-G	ESDS S12S-R2240-4 ESDS S12S-G2240-4 ESDS B24S-R2242-4 ESDS B24S-G2242-4 ESDS B24S-J2000-R ESDS B24S-J2000-S	ESDS S12S-R2240 ESDS S12S-G2240 ESDS B24S-R2240 ESDS B24S-G2240 ESDS S12S-J2000-R ESDS S12S-J2000-G	ESDS S16S-R2240-4 ESDS S16S-G2240-4 ESDS S16S-R2242-4 ESDS S16S-G2242-4 ESDS S16S-J2000-R ESDS S16S-J2000-S
	3G SAS 3G SAS	ESDS B12S-J1000-R ESDS B12S-J1000-S	ESDS S12S-J1002-R ESDS S12S-J1000-G		ESDS S16S-J1000-R ESDS S16S-J1000-S
Fibre Host	4G FC 3G SAS		ESDS S12F-R1440 ESDS S12F-G1440	ESDS S16F-R1440 ESDS S16F-G1440	ESDS S24F-R1440 ESDS S24F-G1440
	8G FC 6G SAS	ESDS B12F-R2840-4 ESDS B12F-G2840-4	ESDS B24F-R2842-6 ESDS B24F-G2842-6 ESDS B24F-R2840-4 ESDS B24F-G2840-4 ESDS S12F-R2840-4 ESDS S12F-G2840-4	ESDS S12F-G2840-4 ESDS S12F-R2840N ESDS S12F-S2840N ESDS S12S-J2000RN ESDS S12S-J2000SN	ESDS S16F-R2842-6 ESDS S16F-G2842-6 ESDS S16F-R2840-4 ESDS S16F-G2840-4
	8G FC 3G SAS		ESDS S12F-R1840-4 ESDS S12F-G1842-4	ESDS S16F-R1840-4 ESDS S16F-G1840-4	ESDS S24F-R1840-4 ESDS S24F-G1840-4
	FC FC	ESDS FF-R4031-6 ESDS FF-S4031-6		ESDS F16F-R4840 ESDS F16F-S4840	ESDS F16F-R4031-6 ESDS F16F-S4031-6

* Models may vary by region.

EonStor DS System Specifications

SAS JBOD				
Product Image				
Model	ESDS S16S-J1000-R	ESDS S16S-J1000-S	ESDS S12S-J1002-R	ESDS S12S-J1000-G
Redundant Controller	Yes	Single upgradable to redundant	Yes	No
Form Factor	3U Rackmount	3U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	16	16	12	12
Max. Number of Drives	16	16	12	12
RAID Engine	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
RAID Levels				
Host Channel	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s	Exclusively SAS 3Gb/s
Drive Channel	4 x (SFF-8470)	2 x (SFF-8470)	4 x (SFF-8088)	2 x (SFF-8470)
Expansion Channel				
Cache Memory (per Controller)	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Cache Backup (BBU or CBM)*2				
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			





FC to 2.5" SAS RAID System				
Product Image				
Model	ESDS B24F-R2842-6	ESDS B24F-G2842-6	ESDS B24F-R2840-4	ESDS B24F-G2840-4
Redundant Controller	Yes	No	Yes	No
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	24	24	24	24
Max. Number of Drives	144	144	144	144
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, 8G FC, 8 x SFP 4CH, 1Gb Ethernet, 4 x (RJ-45)	4CH, 8G FC, 8 x SFP 2CH, 1Gb Ethernet, 2 x (RJ-45)	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP
Drive Channel	Exclusively 2.5" SAS 6Gb/s	Exclusively 2.5" SAS 6Gb/s	Exclusively 2.5" SAS 6Gb/s	Exclusively 2.5" SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			





* Models vary by region.





* 1. SANWatch Management Suite is supported on ASIC400 or later models.

* 2. CBM contains BBU and Flash module.

EonStor DS System Specifications

	FC to 2.5" SAS RAID System		SAS to 2.5" SAS RAID System	
Product Image				
Model	ESDS B12F-R2840-4	ESDS B12F-G2840-4	ESDS B24S-R2240	ESDS B24S-G2240
Redundant Controller	Yes	No	Yes	No
Form Factor	1U Rackmount	1U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	12	12	24	24
Max . Number of Drives	108	108	144	144
RAID Engine	ASIC667	ASIC667	ASIC667	ASIC667
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
Host Channel	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP	4CH, SAS 6G Gb/s 4x, 4 x (SFF-8088)	2CH, SAS 6G Gb/s 4x, 2 x (SFF-8088)
Drive Channel	Exclusively 2.5" SAS 6Gb/s	Exclusively 2.5" SAS 6Gb/s	Exclusively 2.5" SAS 6Gb/s	Exclusively 2.5" SAS 6Gb/s
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 4GB DDR-II
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU or CBM	BBU or CBM
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1			

	iSCSI to 2.5" SAS RAID System		2.5" SAS JBOD	
Product Image				
Model	ESDS B12E-R2140-4	ESDS B12E-G2140-4	ESDS B24S-J2000-R	ESDS B24S-J2000-S
Redundant Controller	Yes	No	Yes	Single upgradable to redundant
Form Factor	1U Rackmount	1U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	12	12	24	24
Max . Number of Drives	108	108	24	24
RAID Engine	ASIC667	ASIC667	Managed by RAID	Managed by RAID
RAID Levels	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	0, 1(0+1), 3, 5, 6, 10, 30, 50, 60	Managed by RAID	Managed by RAID
Host Channel	8CH, 1Gb Ethernet, 8 x (RJ-45)	4CH, 1Gb Ethernet, 4 x (RJ-45)	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 4 x (SFF-8088)
Drive Channel	Exclusively 2.5" SAS 6Gb/s	Exclusively 2.5" SAS 6Gb/s	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 4 x (SFF-8088)
Expansion Channel	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)	Managed by RAID	Managed by RAID
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	Managed by RAID	Managed by RAID
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	Managed by RAID	Managed by RAID
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or SANWatch*1		Managed by RAID	Managed by RAID

	2.5" SAS JBOD			
Product Image				
Model	ESDS B12S-J2000-R	ESDS B12S-J2000-G	ESDS B12S-J1000-R	ESDS B12S-J1000-S
Redundant Controller	Yes	No	Yes	Single upgradable to redundant
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
Drive Bays	12	12	12	12
Max . Number of Drives	12	12	12	12
RAID Engine	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
RAID Levels	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Host Channel	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 2 x (SFF-8088)	Exclusively SAS 3Gb/s 4 x (SFF-8088)	Exclusively SAS 3Gb/s 2 x (SFF-8088)
Drive Channel	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Expansion Channel	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Cache Memory (per Controller)	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Cache Backup (BBU or CBM)*2	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Managed by RAID	Managed by RAID	Managed by RAID	Managed by RAID

- * Models vary by region.
- * 1. SANWatch Management Suite is supported on ASIC400 or later models.
- * 2. CBM contains BBU and Flash module.



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