



**About Infortrend**

Founded in 1993, Infortrend Corporation (Public TPE: 2495) is a leading provider of high-performance networked storage solutions focusing on quality, reliability, choice and value.

Fully dedicated to storage solutions, Infortrend has a strong technological foundation that includes one of the best R&D teams in the industry. Our expertise covers all aspects of storage systems, including hardware, firmware, software and system integration. To ensure product excellence, Infortrend systems are designed and manufactured in-house.

Infortrend storage solutions have been widely deployed on a variety of demanding applications by multiple users across commercial and industrial markets. Our core brands include the ESVA, EonStor DS and EonNAS product families.

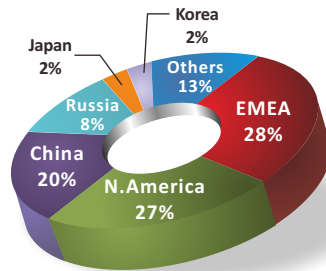
**Vision Statement**

With continuous investments in research and development, Infortrend is fully dedicated to achieving product excellence. Infortrend provides its customers exceptionally high-quality storage products and solutions to address their diverse requirements and protect their most valuable assets - applications and data. Infortrend's commitment to ensuring customer satisfaction and loyalty through product excellence is shared by Infortrend's global network of suppliers, distributors and storage integrators.

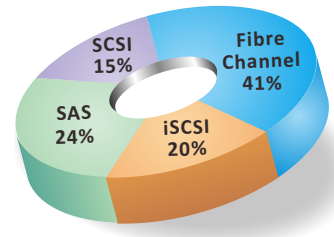
**Award-Winning Products and Solutions**

Infortrend offers a wide range of storage products and solutions which incorporate leading technologies to achieve high performance, reliability and ease of use.

**Infortrend Sales Volume by Region, CY 2010**



**Infortrend Sales Volume by Host Interface, CY 2010**



Integrated solutions deliver advanced processing capability, award-winning hardware ensures high availability, and user-friendly management tools simplify administration.

Supporting storage protocols including Fibre Channel, iSCSI, SAS, SATA and SCSI, Infortrend products and solutions can be readily implemented in storage area networks (SAN), direct attached storage (DAS), and network attached storage (NAS) environments. Additionally, to meet top-tier application needs across business environments, our products and solutions are tested compatible with enterprise-level operating systems (OS) such as Windows® Server 2008, Solaris®, Linux®, IBM AIX®, HP-UX®, and server virtualization software such as VMware®, Oracle®, Citrix®, and Microsoft Hyper-V.

For detailed product information, please visit [www.infortrend.com](http://www.infortrend.com) or contact Infortrend sales teams or channel partners.

**Commitment to Environmental Sustainability**

Infortrend is fully committed to efforts aimed at conserving our natural environment and strives to contribute to environmental sustainability in as many ways as possible. Infortrend adopts advanced technologies to ensure that our storage systems maximize energy efficiency, thereby lowering power consumption and minimizing the impact on the environment. In addition, Infortrend is also in compliance with major international environmental regulations such as Restriction of Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE).



**Worldwide Service and Support**

Headquartered in Taipei, Infortrend operates throughout the world with a network of regional branch offices and channel partners. Regional branch offices are located in the USA, UK, Germany, China and Japan.

Infortrend employs a comprehensive support network that delivers professional services, around the world and around the clock. Infortrend's storage experts can assist users with system installation and configuration, and provide prompt diagnosis and troubleshooting if customers encounter issues with their systems. Support activities are coordinated by Infortrend's headquarters, where support teams work in close coordination with technology experts to quickly resolve any issues.

Channel partners distribute our products in major regions around the world and share Infortrend's commitment to product excellence. Infortrend cooperates closely with channel partners to ensure they have all necessary capabilities and know-how to efficiently deliver Infortrend systems to the market.

**Key Milestones, Awards and Achievements**

Year	Key Milestones, Awards and Achievements
2010	<ul style="list-style-type: none"> <li>Infortrend introduces the <b>EonNAS</b>® family, an advanced unified storage solution</li> <li>Infortrend introduces the <b>EonStor DS</b> family</li> <li>Network Products Guide names the <b>ESVA F60</b> Fibre Channel storage solution a winner of the 2010 Best Products and Services Award</li> <li>Infortrend CTO, Michael Schnapp, selected by Everything Channel's CRN as one of the publication's Storage Superstars of 2010</li> </ul>
2009	<ul style="list-style-type: none"> <li>Infortrend introduces <b>ESVA</b>® (Enterprise Scalable Virtualized Architecture), a revolutionary SAN storage architecture</li> <li><b>ESVA</b> wins Best Choice award during Computex Taipei</li> </ul>
2008	<ul style="list-style-type: none"> <li><b>EonStor B12F</b> series wins Best Choice award during Computex Taipei</li> <li><b>Ranked #7</b> in Worldwide External Disk Storage System Shipments by IDC</li> </ul>
2007	<ul style="list-style-type: none"> <li>Infortrend introduces <b>SANWatch</b>® storage management software</li> </ul>
2003	<ul style="list-style-type: none"> <li>Infortrend announces <b>EonStor</b>® product line, Infortrend's first branded product family</li> </ul>



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

Host connectivity includes Fibre Channel (4Gb/s and 8Gb/s), iSCSI (1GbE and 10GbE), and SAS (3Gb/s and 6Gb/s). Supported drive types on EonStor DS models include Fibre Channel, SAS (3Gb/s and 6Gb/s) and nearline SAS.

Form factors range from 1U to 4U, including models accommodating 3.5-inch drives and models accommodating 2.5-inch drives.

		1U	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 B12S-R2240 ESDS B12S-G2240 ESDS B12S-J2000-R ESDS B12S-J2000-G	ESDS S12S-R2240 ESDS S12S-G2240 ESDS B24S-R2240 ESDS B24S-G2240 ESDS B24S-J2000-R ESDS B24S-J2000-S ESDS S12S-J2000-R ESDS S12S-J2000-G	ESDS S16S-R2240 ESDS S16S-G2240 ESDS S16S-J2000-R ESDS S16S-J2000-S	ESDS S24S-G2240
	3G SAS   3G SAS	ESDS B12S-J1000-R ESDS B12S-J1000-S	ESDS S12S-R1032 ESDS S12S-G1033 ESDS S12S-J1002-R ESDS S12S-J1000-G	ESDS S16S-R1030 ESDS S16S-G1030 ESDS S16S-J1000-R ESDS S16S-J1000-S	
	4G FC   3G SAS	ESDS B12F-R1430 ESDS B12F-G1431	ESDS S12F-R1440 ESDS S12F-G1440	ESDS S16F-R1440 ESDS S16F-G1440	ESDS S24F-R1440 ESDS S24F-G1440
Fibre Host	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 S16F-R2842-6 ESDS S16F-G2842-6 ESDS S16F-R2840-4 ESDS S16F-G2840-4	ESDS S24F-R2840-4 ESDS S24F-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-R4031-6/4 ESDS F16F-S4031-6/4	

\* Models may vary by regions.

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 <sup>1</sup>	Standard <sup>1</sup>	Advanced <sup>2</sup>
<b>Snapshot</b>		
Maximum Number of Snapshot Images for a Source Volume	64	256
Maximum Number of Snapshot Images in a System	1024	4096
<b>Volume Copy / Mirror</b>		
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 REPLICATION <sup>2</sup>		
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 PROVISIONING <sup>2</sup>		





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		FC to FC RAID System	
Product Image				
Model	ESDS FF-R4031-6	ESDS FF-G4031-6	ESDS F16F-R4840	ESDS F16F-S4840
Redundant Controller	Yes	Single upgradable to redundant	Yes	Single upgradable to redundant
Form Factor	1U Rackmount	1U Rackmount	3U Rackmount	3U Rackmount
Drive Bays	-	-	16	16
Max . Number of Drives	224 (FC 4G or SATA 3Gb/s)	224 (FC 4G or SATA 3Gb/s)	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 CH4, 5: User Configrabel as Drive or Host Channel		4CH, 8G FC, 4 x SFP	2CH, 8G FC, 2 x SFP
Drive 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	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 FC RAID System			
Product Image				
Model	ESDS F16F-R4031-6	ESDS F16F-S4031-6	ESDS F16F-R4031-4	ESDS F16F-S4031-4
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*3	112*3
RAID Engine	ASIC400	ASIC400	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	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 CH4, 5: User Configurable as Drive or Host Channel		4CH, 4G FC with Hub function (2 SFP for each channel) CH0, 1: Host Channel CH2,3: Drive Channel	
Drive Channel				
Expansion Channel				
Cache Memory (per Controller)	1GB - 2GB DDR	1GB - 2GB DDR	1GB - 2GB DDR	1GB - 2GB DDR
Cache Backup (BBU or CBM)*2	BBU	BBU	BBU	BBU
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-R2842-6	ESDS S16F-G2842-6	ESDS S12F-R1440	ESDS S12F-G1440
Redundant Controller	Yes	No	Yes	No
Form Factor	3U Rackmount	3U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	16	16	12	12
Max . Number of Drives	112	112	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, 1Gb Ethernet, 4 x (RJ-45)	4CH, 8G FC, 4 x SFP / 2CH, 1Gb Ethernet, 2 x (RJ-45)	4CH, 4G FC, 4 x SFP	2CH, 4G FC, 2 x SFP
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/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	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 S24F-R2840-4	ESDS S24F-G2840-4	ESDS S24F-R1840-4	ESDS S24F-G1840-4
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	8CH, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/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	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.





\* 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 S24F-R1440	ESDS S24F-G1440	ESDS S16F-R2840-4	ESDS S16F-G2840-4
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	4CH, 4G FC, 4 x SFP	2CH, 4G FC, 2 x SFP	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	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-R2840-4	ESDS S12F-G2840-4	ESDS S12F-R1840-4	ESDS S12F-G1842-4
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, 8G FC, 8 x SFP	4CH, 8G FC, 4 x SFP
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/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	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	ESDS S16S-G2240	ESDS S12S-R2240	ESDS S12S-G2240
Redundant Controller	Yes	No	Yes	No
Form Factor	3U Rackmount	3U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	16	16	12	12
Max . Number of Drives	112	112	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	4CH, SAS 6Gb/s 4x, 4 x (SFF-8088)	2CH, SAS 6Gb/s 4x, 2 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			




\* 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 S16S-R1030	ESDS S16S-G1030	ESDS S12S-R1032	ESDS S12S-G1033
Redundant Controller	Yes	No	Yes	No
Form Factor	3U Rackmount	3U Rackmount	2U Rackmount	2U Rackmount
Drive Bays	16	16	12	12
Max . Number of Drives	64	80	48	60
RAID Engine	ASIC400	ASIC400	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	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, SAS 4x, 4 x (SFF-8470)	2CH, SAS 4x, 2 x (SFF-8470)	4CH, SAS 4x, 4 x (SFF-8088)	2CH, SAS 4x, 2 x (SFF-8088)
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-8470)	SAS 4x, 1 x (SFF-8470)	SAS 4x, 2 x (SFF-8088)	SAS 4x, 1 x (SFF-8088)
Cache Memory (per Controller)	1GB - 2GB DDR	1GB - 2GB DDR	1GB - 2GB DDR	1GB - 2GB DDR
Cache Backup (BBU or CBM)*2	BBU	BBU	BBU	BBU
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		iSCSI to SAS RAID System	
Product Image			
Model	ESDS S24S-G2240	ESDS S24E-G2142-6	ESDS S16E-R2142-6
Redundant Controller	No	No	Yes
Form Factor	4U Rackmount	4U Rackmount	3U Rackmount
Drive Bays	24	24	16
Max . Number of Drives	104	104	112
RAID Engine	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
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)
Drive Channel	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)
Cache Memory (per Controller)	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
Redundant Power Supply	Yes	Yes	Yes
Redundant Fan Modules	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 S16E-R2240	ESDS S16E-G2240	ESDS S16E-G2142-6
Redundant Controller	Yes	No	No
Form Factor	3U Rackmount	3U Rackmount	3U Rackmount
Drive Bays	16	16	16
Max . Number of Drives	112	112	112
RAID Engine	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
Host Channel	4CH, 10Gb Ethernet, 4 x SFP+	4CH, 10Gb Ethernet, 2 x SFP+	6CH, 1Gb Ethernet, 6 x (RJ-45)
Drive Channel	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, 1 x (SFF-8088)
Cache Memory (per Controller)	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
Redundant Power Supply	Yes	Yes	Yes
Redundant Fan Modules	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-R2140-4	ESDS S12E-G2140-4	ESDS S16E-G1140-4	ESDS S12E-G1140-2
Redundant Controller	Yes	No	No	No
Form Factor	2U Rackmount	2U Rackmount	3U Rackmount	2U Rackmount
Drive Bays	12	12	16	12
Max . Number of Drives	84	84	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	8CH, 1Gb Ethernet, 8 x (RJ-45)	4CH, 1Gb Ethernet, 4 x (RJ-45)	4CH, 1Gb Ethernet, 4 x (RJ-45)	2CH, 1Gb Ethernet, 2 x (RJ-45)
Drive Channel	Exclusively SAS 6Gb/s	Exclusively SAS 6Gb/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, 1 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.

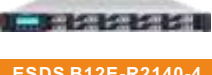



\* 1 : SANWatch Management Suite is supported on ASIC400 or later models.





\* 2 : CBM contains BBU and Flash module.

# EonStor DS System Specifications

SAS JBOD				
Product Image				
Model	<b>ESDS S16S-J2000-R</b>	<b>ESDS S16S-J2000-S</b>	<b>ESDS S12S-J2000-R</b>	<b>ESDS S12S-J2000-G</b>
Redundant Controller	Yes	Single upgradeable 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			
RAID Levels	Managed by RAID			
Host Channel	Managed by RAID			
Drive 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)
Expansion Channel	Managed by RAID			
Cache Memory (per Controller)	Managed by RAID			
Cache Backup (BBU or CBM)*2	Managed by RAID			
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Managed by RAID			

SAS JBOD				
Product Image				
Model	<b>ESDS S16S-J1000-R</b>	<b>ESDS S16S-J1000-S</b>	<b>ESDS S12S-J1000-R</b>	<b>ESDS S12S-J1000-G</b>
Redundant Controller	Yes	Single upgradeable 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			
RAID Levels	Managed by RAID			
Host Channel	Managed by RAID			
Drive Channel	Exclusively SAS 3Gb/s 4 x (SFF-8470)	Exclusively SAS 3Gb/s 2 x (SFF-8470)	Exclusively SAS 3Gb/s 4 x (SFF-8088)	Exclusively SAS 3Gb/s 2 x (SFF-8470)
Expansion Channel	Managed by RAID			
Cache Memory (per Controller)	Managed by RAID			
Cache Backup (BBU or CBM)*2	Managed by RAID			
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Managed by RAID			

iSCSI to 2.5" SAS RAID System				
Product Image				
Model	<b>ESDS B12E-R2140-4</b>	<b>ESDS B12E-G2140-4</b>	<b>ESDS B24E-R2142-6</b>	<b>ESDS B24E-G2142-6</b>
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, 1Gb Ethernet, 8 x (RJ-45)	4CH, 1Gb Ethernet, 4 x (RJ-45)	12CH, 1Gb Ethernet, 12 x (RJ-45)	6CH, 1Gb Ethernet, 6 x (RJ-45)
Drive Channel	Exclusively 2.5" SAS 6Gb/s SAS 4x, 2 x (SFF-8088)	Exclusively 2.5" SAS 6Gb/s SAS 4x, 1 x (SFF-8088)	Exclusively 2.5" SAS 6Gb/s SAS 4x, 2 x (SFF-8088)	Exclusively 2.5" SAS 6Gb/s SAS 4x, 1 x (SFF-8088)
Expansion Channel	Managed by RAID			
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 2.5" SAS RAID System				
Product Image				
Model	<b>ESDS B24F-R2842-6</b>	<b>ESDS B24F-G2842-6</b>	<b>ESDS B12F-R1430</b>	<b>ESDS B12F-G1431</b>
Redundant Controller	Yes	No	Yes	No
Form Factor	2U Rackmount	2U Rackmount	1U Rackmount	1U Rackmount
Drive Bays	24	24	12	12
Max . Number of Drives	144	144	60	76
RAID Engine	ASIC667	ASIC667	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	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)	4CH, 4G FC, 4 x SFP	2CH, 4G FC, 2 x SFP
Drive Channel	Exclusively 2.5" SAS 6Gb/s SAS 4x, 2 x (SFF-8088)	Exclusively 2.5" SAS 6Gb/s SAS 4x, 1 x (SFF-8088)	Exclusively 2.5" SAS 3Gb/s SAS 4x, 2 x (SFF-8088)	Exclusively 2.5" SAS 3Gb/s SAS 4x, 1 x (SFF-8088)
Expansion Channel	Managed by RAID			
Cache Memory (per Controller)	1GB - 4GB DDR-II	1GB - 4GB DDR-II	1GB - 2GB DDR	1GB - 2GB DDR
Cache Backup (BBU or CBM)*2	BBU or CBM	BBU or CBM	BBU	BBU
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				
Product Image				
Model	ESDS B24F-R2840-4	ESDS B24F-G2840-4	ESDS B12F-R2840-4	ESDS B12F-G2840-4
Redundant Controller	Yes	No	Yes	No
Form Factor	2U Rackmount	2U Rackmount	1U Rackmount	1U Rackmount
Drive Bays	24	24	12	12
Max . Number of Drives	144	144	108	108
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 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			

SAS to 2.5" SAS RAID System				
Product Image				
Model	ESDS B12S-R2240	ESDS B12S-G2240	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	4CH, SAS 6Gb/s 4x, 4 x (SFF-8088)	2CH, SAS 6Gb/s 4x, 2 x (SFF-8088)	4CH, SAS 6Gb/s 4x 4 x (SFF-8088)	2CH, SAS 6Gb/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			

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 upgradeable 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			
RAID Levels	Managed by RAID			
Host Channel	Managed by RAID			
Drive 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)
Expansion Channel	Managed by RAID			
Cache Memory (per Controller)	Managed by RAID			
Cache Backup (BBU or CBM)*2	Managed by RAID			
Redundant Power Supply	Yes	Yes	Yes	Yes
Redundant Fan Modules	Yes	Yes	Yes	Yes
Management	Managed by RAID			

2.5" SAS JBOD		
Product Image		
Model	ESDS B24S-J2000-R	ESDS B24S-J2000-S
Redundant Controller	Yes	Single upgradeable to redundant
Form Factor	2U Rackmount	2U Rackmount
Drive Bays	24	24
Max . Number of Drives	24	24
RAID Engine	Managed by RAID	
RAID Levels	Managed by RAID	
Host Channel	Managed by RAID	
Drive Channel	Exclusively SAS 6Gb/s 4 x (SFF-8088)	Exclusively SAS 6Gb/s 4 x (SFF-8088)
Expansion Channel	Managed by RAID	
Cache Memory (per Controller)	Managed by RAID	
Cache Backup (BBU or CBM)*2	Managed by RAID	
Redundant Power Supply	Yes	Yes
Redundant Fan Modules	Yes	Yes
Management	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.

Infortrend works closely with industry leaders to deliver integrated storage solutions that offer users rapid deployment, high performance, easy management and maximum return on investment (ROI). Thanks to extensive compatibility testing, certification, and collaborative product design, Infortrend can assure that our systems are fully interoperable with partner solutions.

**Microsoft**

As a Microsoft Gold Partner and Microsoft Virtualization Partner, Infortrend provides optimized storage solutions for Microsoft environments.

Almost all Infortrend products are Microsoft WHQL certified and listed on the Windows' website, affirming that our storage solutions meet the requirements specified by Microsoft for interoperability with Windows servers.



**Alliance Partners**



**VMware**

Infortrend is a VMware Elite-level Technology Alliance Partner (TAP). All Infortrend iSCSI and Fibre Channel (FC) host storage products are VMware certified to ensure our customers can benefit from high storage utilization and simplified infrastructure with industry-leading solutions and virtualization technologies.



**Oracle**

Oracle databases are critical to many businesses. As an Oracle Partner Network member, Infortrend has a collaborative alliance with Oracle that leverages leadership in enterprise-class storage solutions, database and applications to help customers manage storage easily and efficiently.

**Citrix**

Infortrend is a Citrix Ready partner. Selected storage systems from Infortrend's ESVA family have been verified as Citrix Ready®. These ESVA systems have successfully passed a series of tests established by Citrix, and can be trusted to work effectively with Citrix XenServer in order to optimize performance of virtualized datacenters.



### Optional Extended Warranty

In addition to the three-year Regular Warranty, Infortrend offers an Optional Extended Warranty (battery excluded) that extends the warranty period for the product an additional two years. Customers may purchase the Optional Extended Warranty at the time of sale or within the Regular Warranty period. For more detailed information, please contact your local representatives.



### Quality System

Infortrend is an ISO-9001:2000 and ISO-14001:2004 certified manufacturer known for its high quality standards. Our finished goods adhere to international standards including RoHS, Mil-std-105E, Mil-std-810F, IEC 60950, and IEC 17025. We have also passed prevalent company and product certifications, such as UL, CE, CB, BSMI, and FCC. Sound quality assurance is achieved through the following measures:

- Fully implemented TQM (Total Quality Methodology) and an automated shop floor control system
- Serial-number-based product traceability from subsystems, modules, all the way down to the component level
- In-house RoHS-compliance inspection starting from system design and SCM (Supply Chain Management) through mass production
- Pre-pilot design verification and NPI (New Product Introduction) gate control procedures
- 100% burn-in and aging testing for quality control of mass production
- Continual improvement in response to customer feedback

Our products are fully tested at all stages of manufacturing to verify they are stable and problem-free. All RAID systems come with a standard three-year warranty. As an option, customers may purchase a two-year extension to enjoy five-year worry-free warranty protection for their RAID systems.



