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Spend less. Earn more

EonStor DS - affordable high-availability storage

EonStor DS Product Matrix



www.infortrend.com

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. Fueled by a depth of technological expertise and system level knowledge, 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 EonStor® product families.

Vision Statement - "Confidence through Excellence"

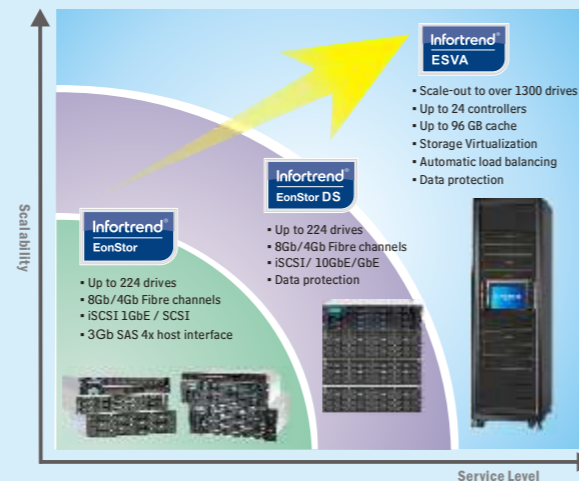
With a continuous investment in research and development, Infortrend has been dedicated to delivering upon its vision, "Confidence through Excellence". Infortrend provides its customers exceptionally high quality storage products and solutions to address their diverse requirements and protect their most valuable assets-applications and data. Infortrend's commitment to ensuring customer satisfaction, security 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. The proprietary ASIC design delivers advanced processing capability, the award-winning hardware ensures high-availability, and the user-friendly management tools simplify administration.

With the ESVA Series, users are also able to take advantage of two dimensional scaling, thin provisioning and distributed load balancing to achieve optimal return on their investment and further maximize their application productivity when rebuilding or expanding their storage infrastructure.

Supporting storage protocols including Fibre Channel, iSCSI, SAS, SATA and SCSI, Infortrend products and solutions can be readily implemented in storage area networks (SAN) and direct attached storage (DAS) environments. Additionally, to meet top-tier application needs across business environments, the 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® and Microsoft Hyper-V, 2008 R2 and Oracle.



Key Milestones, Awards and Achievements

- 2010**
 - Infortrend introduces the EonNAS family, the advanced unified storage solution
 - Infortrend introduces the EonStor Data Service (EonStor DS) product line
- 2009**
 - Infortrend introduces the ESVA (Enterprise Scalable Virtualized Architecture), a revolutionary SAN storage architecture
 - ESVA wins "Best Choice" award during Computex Taipei
- 2008**
 - B12F Series wins "Best Choice" award during Computex Taipei
 - Ranked #7 in Worldwide External Disk Storage System Shipments by IDC
- 2007**
 - Infortrend introduces SANWatch® storage management software
- 2003**
 - Infortrend announces EonStor product line, the first Infortrend branded products

Infortrend introduced the world's FIRST ...

- 2.5" HDD RAID array in 2007
- SAS RAID array in 2005
- SATA RAID array in 2003

Worldwide Service and Support

Headquartered in Taipei, Taiwan, Infortrend operates businesses through a global presence with joint forces of direct branch offices and channel partners. Our corporate offices located in the United States, the United Kingdom, Germany, China and Japan work with headquarters to penetrate American, European and Asia Pacific storage markets. With the help of an extensive global network of channel partners, our dedicated and competent sales and technical support teams deliver timely and efficient services, 24/7 worldwide.

For detailed product information, please visit www.infortrend.com or contact Infortrend worldwide sales or channel partners.

EonStor DS Subsystem Specifications

| iSCSI to SAS RAID Subsystem | | | | |
|-------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| Product Image | | | | |
| Model | S16E-R1130 | S16E-G1130 | S12E-R1132 | S12E-G1133 |
| 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 | 8CH, 1Gb Ethernet, 8 x (RJ-45) | 4CH, 1Gb Ethernet, 4 x (RJ-45) | 8CH, 1Gb Ethernet, 8 x (RJ-45) | 2CH, 1Gb Ethernet, 2 x (RJ-45) |
| Drive Channel | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS / SATA-II 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 - 2GB DDR | 1GB - 2GB DDR | 1GB - 2GB DDR | 1GB - 2GB DDR |
| Cache Backup (BBU or CBM)*3 | 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 JAVA-based SANWatch*1 | | | |

* Models vary by region.
 * 1 : SANWatch Management Suite is supported on ASIC400 or later models.
 * 2 : Depending on connected RAID model, supports SAS or SATA-II 3Gb/s.
 * 3 : Cache Backup technique for ASIC400 models is Battery (BBU) backup, and for ASIC677 models either BBU or CBM (Cache Backup Module). CBM contains of BBU and Flash module.

Alliance Partner

Infortrend has attained Gold Certified Partner status in the Microsoft Partner Program, strengthening its competitive edge in developing networked storage solutions that are based on the Windows system. To date, over 70 of Infortrend's RAID subsystems have been certified by Microsoft Windows Quality Labs (WHQL) Testing and all are listed in the Windows RAID category, including Windows 2003, 2008, 2008 R2 and Hyper-V.



As a VMware® Technology Alliance Partner (TAP), Infortrend collaborates closely with VMware to ensure Infortrend RAID subsystems meet VMware compatibility requirements. Infortrend's VMware-compatible iSCSI- and FC-host arrays are available as a RAID head and 12-, 16-, and 24-bay subsystems that support FC, SAS, or SATA hard drives, providing enterprise-class storage solutions to suit a wide variety of computing environments.



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



EonStor DS Subsystem Specifications

| SAS to SAS RAID Subsystem | | | | |
|------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| Product Image | | | | |
| Model | S16S-R1030 | S16S-G1030 | S12S-R1032 | 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 | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS / SATA-II 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)*3 | 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 JAVA-based SANWatch*1 | | | |

| SAS JBOD | | | | |
|------------------------------|------------------------|---------------------------------|------------------------|------------------------|
| Product Image | | | | |
| Model | S16S-J2000-R | S16S-J2000-S | S12S-J2000-R | S12S-J2000-G |
| 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 (SAS 6Gb/s) | 16 (SAS 6Gb/s) | 12 (SAS 6Gb/s) | 12 (SAS 6Gb/s) |
| RAID Engine | Managed by RAID | | | |
| RAID Levels | Managed by RAID | | | |
| Host Channel | Managed by RAID | | | |
| Drive Channel | SAS 4x, 4 x (SFF-8088) | SAS 4x, 2 x (SFF-8088) | SAS 4x, 4 x (SFF-8088) | SAS 4x, 2 x (SFF-8088) |
| Expansion Channel | Managed by RAID | | | |
| Cache Memory(per Controller) | Managed by RAID | | | |
| Cache Backup (BBU or CBM)*3 | 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 | S16S-J1000-R | S16S-J1000-S | S12S-J1002-R | S12S-J1000-G |
| 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 (SAS / SATA-II 3Gb/s*2) | 16 (SAS / SATA-II 3Gb/s*2) | 12 (SAS/SATA-II 3Gb/s*2) | 12 (SAS/SATA-II 3Gb/s*2) |
| RAID Engine | Managed by RAID | | | |
| RAID Levels | Managed by RAID | | | |
| Host Channel | Managed by RAID | | | |
| Drive Channel | SAS 4x, 4 x (SFF-8470) | SAS 4x, 2 x (SFF-8470) | SAS 4x, 4 x (SFF-8088) | SAS 4x, 2 x (SFF-8470) |
| Expansion Channel | Managed by RAID | | | |
| Cache Memory(per Controller) | Managed by RAID | | | |
| Cache Backup (BBU or CBM)*3 | Managed by RAID | | | |
| Redundant Power Supply | Yes | Yes | Yes | Yes |
| Redundant Fan Modules | Yes | Yes | Yes | Yes |
| Management | Managed by RAID | | | |

| SAS to 2.5" SAS RAID | | 2.5" SAS JBOD | |
|------------------------------|---|------------------------------------|---------------------------------|
| Product Image | | | |
| Model | B12S-R1030 | B12S-G1031 | B12S-J1000-R |
| Redundant Controller | Yes | No | Single upgradeable to redundant |
| Form Factor | 1U Rackmount | 1U Rackmount | 1U Rackmount |
| Drive Bays | 12 | 12 | 12 |
| Max. Number of Drives | 48 | 60 | 12 (2.5" SAS) |
| RAID Engine | ASIC400 | ASIC400 | 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 |
| Host Channel | 4CH, SAS 4x, 4 x (SFF-8088) | 2CH, SAS 4x, 2 x (SFF-8088) | Managed by RAID |
| Drive Channel | 2.5" SAS / SATA-II 3Gb/s | 2.5" SAS / SATA-II 3Gb/s | SAS 4x, 4 x (SFF-8088) |
| Expansion Channel | SAS 4x, 2 x (SFF-8088) | SAS 4x, 1 x (SFF-8088) | SAS 4x, 2 x (SFF-8088) |
| Cache Memory(per Controller) | 1GB - 2GB DDR | 1GB - 2GB DDR | Managed by RAID |
| Cache Backup (BBU or CBM)*3 | BBU | BBU | Managed by RAID |
| 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 JAVA-based SANWatch*1 | | Managed by RAID |

* Models vary by region.
 * 1 : SANWatch Management Suite is supported on ASIC400 or later models.
 * 2 : Depending on connected RAID model, supports SAS or SATA-II 3Gb/s.
 * 3 : Cache Backup technique for ASIC400 models is Battery (BBU) backup, and for ASIC677 models either BBU or CBM (Cache Backup Module). CBM contains of BBU and Flash module.



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, Infotrend allows users to enable snapshot and volume copy/mirror functions on their EonStor DS. By configuring the scheduler in SANWatch, users can automate data protection tasks, such as snapshot-taking, data copying and source/target synchronizing. In case of human errors or data volume failure, the differential and full copies for critical data sets can be leveraged to quickly recover data and restart service.

SNAPSHOT

- Copy-on-write technology to create point-in-time differential copies without disrupting online applications
- Restore deleted files or rolling 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 backup
- Restart service in minutes with minimized data loss when the source data volume fatally fails



SPECIFICATIONS

Snapshot

| | |
|---|-------|
| Maximum Number of Snapshot Images for a Source Volume | 256 |
| Maximum Number of Snapshot Images in a System | 4,000 |

Volume Copy/ Mirror

| | |
|---|----|
| 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 |

EonStor DS Subsystem Specifications

| FC to SAS RAID Subsystem | | | | |
|-------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| Product Image | | | | |
| Model | S24F-R2840-4 | S24F-G2840-4 | S24F-R1840-4 | 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 | SAS 6Gb/s / SATA-II | SAS 6Gb/s / SATA-II | SAS / SATA-II 3Gb/s | SAS / SATA-II 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)*3 | 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 JAVA-based SANWatch*1 | | | |

| FC to SAS RAID Subsystem | | | | |
|-------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| Product Image | | | | |
| Model | S24F-R1440 | S24F-G1440 | S16F-R2840-4 | 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 | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS 6Gb/s / SATA-II | SAS 6Gb/s / SATA-II |
| 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)*3 | 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 JAVA-based SANWatch*1 | | | |

| FC to SAS RAID Subsystem | | | | |
|-------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| Product Image | | | | |
| Model | S16F-R1840-4 | S16F-G1840-4 | S16F-R1440 | 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 | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS / SATA-II 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)*3 | 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 JAVA-based SANWatch*1 | | | |

| FC to SAS RAID Subsystem | | | | |
|-------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| Product Image | | | | |
| Model | S12F-R2840-4 | S12F-G2840-4 | S12F-R1840-4 | 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 | 8CH, 8G FC, 8 x SFP | 4CH, 8G FC, 4 x SFP |
| Drive Channel | SAS 6Gb/s / SATA-II | SAS 6Gb/s / SATA-II | SAS / SATA-II 3Gb/s | SAS / SATA-II 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)*3 | 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 JAVA-based SANWatch*1 | | | |

* Models vary by region.
 * 1 : SANWatch Management Suite is supported on ASIC400 or later models.
 * 2 : Depending on connected RAID model, supports SAS or SATA-II 3Gb/s.
 * 3 : Cache Backup technique for ASIC400 models is Battery (BBU) backup, and for ASIC677 models either BBU or CBM (Cache Backup Module). CBM contains of BBU and Flash module.

EonStor DS Subsystem Specifications

| FC to SAS RAID Subsystem | | | |
|-------------------------------|---|------------------------------------|------------------------------------|
| Product Image | | | |
| Model | S12F-R1440 | S12F-G1440 | S12F-G1433 |
| Redundant Controller | Yes | No | No |
| Form Factor | 2U Rackmount | 2U Rackmount | 2U Rackmount |
| Drive Bays | 12 | 12 | 12 |
| Max . Number of Drives | 84 | 84 | 60 |
| RAID Engine | ASIC667 | ASIC667 | 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 |
| Host Channel | 4CH, 4G FC, 4 x SFP | 2CH, 4G FC, 2 x SFP | 2CH, 4G FC, 2 x SFP |
| Drive Channel | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/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 - 2GB DDR |
| Cache Backup (BBU or CBM)*3 | BBU or CBM | BBU or CBM | BBU |
| 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 JAVA-based SANWatch*1 | | |

| FC to FC RAID Subsystem | | | | |
|-------------------------------|---|------------------------------------|---|---|
| Product Image | | | | |
| Model | F16F-R4840 | F16F-S4840 | F16F-R4031-6 | F16F-S4031-6 |
| 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 | 112 | 112 | 208(SATA-II)+16(FC 4G) or 224 (FC 4G) | 208(SATA-II)+16(FC 4G) or 224 (FC 4G) |
| 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 | 4CH, 8G FC, 4 x SFP | 2CH, 8G FC, 2 x SFP | 6CH, 4G FC with Hub function (2 SFP for each channel) | 6CH, 4G FC with Hub function (2 SFP for each channel) |
| Drive Channel | 4G FC | 4G FC | CH0, 1: Host Channel | CH2, 3: Drive Channel |
| Expansion Channel | 4CH, 4G FC, 4 x SFP | 2CH, 4G FC, 2 x SFP | CH4, 5: User Configurable as Drive or Host Channel | CH4, 5: User Configurable as Drive or Host Channel |
| Cache Memory (per Controller) | 1GB - 4GB DDR-II | 1GB - 4GB DDR-II | 1GB - 2GB DDR | 1GB - 2GB DDR |
| Cache Backup (BBU or CBM)*3 | 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 JAVA-based SANWatch*1 | | | |

| FC to FC RAID Subsystem | | | SAS to SATA RAID |
|-------------------------------|---|--------------------------------------|------------------------------------|
| Product Image | | | |
| Model | F16F-R4031-4 | F16F-S4031-4 | A24S-G2130 |
| Redundant Controller | Yes | Single upgradable to redundant | No |
| Form Factor | 3U Rackmount | 3U Rackmount | 4U Rackmount |
| Drive Bays | 16 | 16 | 24 |
| Max . Number of Drives | 96(SATA-II)+16(FC 4G) or 112 (FC 4G) | 96(SATA-II)+16(FC 4G) or 112 (FC 4G) | 88 |
| RAID Engine | 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 |
| Host Channel | 4CH, 4G FC with Hub function (2 SFP for each channel) | | 2CH, SAS 4x, 4 x (SFF-8088) |
| Drive Channel | CH0, 1: Host Channel | | SATA-II 3Gb/s |
| Expansion Channel | CH2,3: Drive Channel | | SAS 4x, 1 x (SFF-8088) |
| Cache Memory (per Controller) | 1GB - 2GB DDR | 1GB - 2GB DDR | 1GB - 2GB DDR |
| Cache Backup (BBU or CBM)*3 | BBU | BBU | BBU |
| 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 JAVA-based SANWatch*1 | | |

| Fibre RAID Head | | Fibre to 2.5" SAS RAID Subsystem | | |
|-------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| Product Image | | | | |
| Model | FF-R4031-6 | FF-S4031-6 | B12F-R1430 | B12F-G1431 |
| Redundant Controller | Yes | Single upgradable to redundant | Yes | No |
| Form Factor | 1U Rackmount | 1U Rackmount | 1U Rackmount | 1U Rackmount |
| Drive Bays | - | - | 12 | 12 |
| Max . Number of Drives | 224(FC 4G or SATA 3Gb/s) | 224(FC 4G or SATA 3Gb/s) | 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 | 6CH, 4G FC with Hub function (2 SFP for each channel) | | 4CH, 4G FC, 4 x SFP | 2CH, 4G FC, 2 x SFP |
| Drive Channel | CH0, 1: Host Channel | | 2.5" SAS / SATA-II 3Gb/s | 2.5" SAS / SATA-II 3Gb/s |
| Expansion Channel | CH4, 5: User Configurable as Drive or Host Channel | | 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)*3 | 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 JAVA-based SANWatch*1 | | | |

* Models vary by region.
 * 1 : SANWatch Management Suite is supported on ASIC400 or later models.
 * 2 : Depending on connected RAID model, supports SAS or SATA-II 3Gb/s.
 * 3 : Cache Backup technique for ASIC400 models is Battery (BBU) backup, and for ASIC677 models either BBU or CBM (Cache Backup Module). CBM contains of BBU and Flash module.