# Product Matrix

Infortrend®

www.starline.de

## 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"

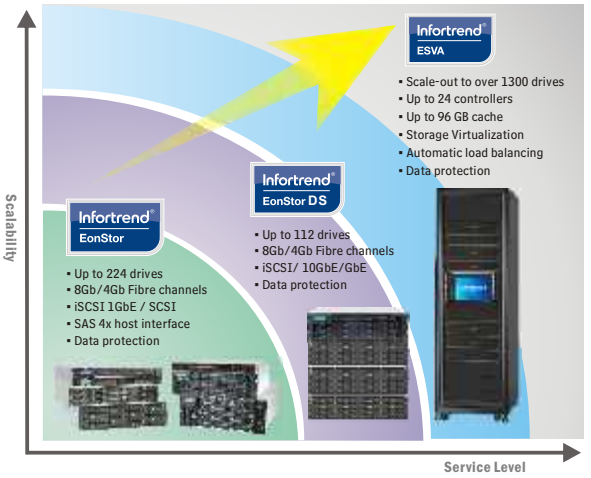
With a continuous investment in research and development, Infortrend has been dedicated to delivering upon its vision, "Confidence through Excellence". Infortrend provides its customers exceptionally high quality storage products and solutions to address their diverse requirements and protect their most 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.




## Key Milestones, Awards and Achievements

| | |
|---|---|
| ➤ 2010 | · Infortrend introduces the EonNAS family, the advanced unified storage solution<br>· Infortrend introduces the EonStor Data Service (EonStor DS) product line<br>· Gartner Ranks Infortrend #3 in unit shipments of Block Entry-level Storage<br>· Gartner Ranks Infortrend #5 in unit shipments of Block Controller-based Storage |
| 2009 | · Infortrend introduces the ESVA (Enterprise Scalable Virtualized Architecture), a revolutionary SAN storage architecture<br>· ESVA wins "Best Choice" award during Computex Taipei |
| 2008 | · B12F Series wins "Best Choice" award during Computex Taipei<br>· IDC ranks Infortrend #7 in World Storage Ranking and Market Share |
| 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.

# EonStor Subsystem Specifications

## Fibre to Fibre 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 | 224 (4G FC) | 224 (4G FC) |
| **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)<br>*CH0,1: Host channel CH2,3: Drive Channel*<br>*CH4,5: User Configurable as Drive or Host Channel* | |
| **Drive Channel** | 4G FC | 4G FC | | |
| **Expansion Channel** | 2CH, 4G FC, 4 x SFP | 2CH, 4G FC, 4 x SFP | | |
| **Cache Memory (per Controller)** | 1GB - 4GB DDR-II | 1GB - 4GB DDR-II | 512MB - 2GB DDR | 512MB - 2GB DDR |
| **Battery Backup (Memory)** | Yes | Yes | Yes | Yes |
| **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*2 | | | |

## Fibre RAID Head / Fibre to 2.5" SAS RAID Subsystem

| | | | | |
|---|---|---|---|---|
| **Product Image** |  |  |  |  |
| **Model** | **FF-R4030-6** | **FF-S4030-6** | **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 (4G FC)+48(SATA-II 3Gb/s) | 224 (4G FC)+48(SATA-II 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)<br>CH0,1: Host channel CH2,3: Drive Channel<br>CH4,5: User Configurable as Drive or Host Channel<br>For R : 2CH, SAS 4x, 2 x (SFF-8470) Expansion Ports<br>For S : 1CH, SAS 4x, 1 x (SFF-8470) Expansion Port | | 4CH, 4G FC, 4 x SFP | 2CH, 4G FC, 2 x SFP |
| **Drive Channel** | | | 2.5" SAS / SATA - II 3Gb/s | 2.5" SAS / SATA-II 3Gb/s |
| **Expansion Channel** | | | SAS 4x, 2 x (SFF-8088) | SAS 4x, 1 x (SFF-8088) |
| **Cache Memory(per Controller)** | 512MB - 2GB DDR | 512MB - 2GB DDR | 512MB - 2GB DDR | 512MB - 2GB DDR |
| **Battery Backup (Memory)** | Yes | Yes | Yes | Optional |
| **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*2 | | | |

## Fibre to SATA RAID Subsystem / Fibre to SAS RAID

| | | | | |
|---|---|---|---|---|
| **Product Image** |  |  |  |  |
| **Model** | **A16F-G2430** | **A12F-G2422** | **A08F-G2422** | **S12F-G1433** |
| **Redundant Controller** | No | No | No | No |
| **Form Factor** | 3U Rackmount | 2U Rackmount | 2U Rackmount | 2U Rackmount |
| **Drive Bays** | 16 | 12 | 8 | 12 |
| **Max . Number of Drives** | 16 | 12 | 8 | 60 |
| **RAID Engine** | ASIC400 | ASIC266 | ASIC266 | ASIC400 |
| **RAID Levels** | 0, 1(0+1), 3, 5, 10, 30, 50 | 0, 1(0+1), 3, 5, 10, 30, 50 | 0, 1(0+1), 3, 5, 10, 30, 50 | 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 |
| **Host Channel** | 2CH, 4G FC, 2 x SFP | 2CH, 4G FC, 2 x SFP | 2CH, 4G FC, 2 x SFP | 2CH, 4G FC, 2 x SFP |
| **Drive Channel** | SATA-II 3Gb/s | SATA-II 3Gb/s | SATA - II 3Gb/s | SAS / SATA-II 3Gb/s |
| **Expansion Channel** | - | - | - | SAS 4x, 1 x (SFF-8088) |
| **Cache Memory(per Controller)** | 512MB - 2GB DDR | 256MB - 1GB DDR | 256MB - 1GB DDR | 512MB - 2GB DDR |
| **Battery Backup (Memory)** | Optional | Optional | Optional | Optional |
| **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*2 | | | |

## Fibre to SAS RAID Subsystem / Fibre SBOD

| | | | | |
|---|---|---|---|---|
| **Product Image** |  |  |  |  |
| **Model** | **S12F-R1840-4** | **S12F-G1842-4** | **F16F-J4000-R** | **A16F-J2430-G** |
| **Redundant Controller** | Yes | No | Yes | No |
| **Form Factor** | 2U Rackmount | 2U Rackmount | 3U Rackmount | 3U Rackmount |
| **Drive Bays** | 12 | 12 | 16 | 16 |
| **Max . Number of Drives** | 84 | 84 | 16 (4G FC) | 16 (SATA-II 3Gb/s) |
| **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 | 2CH, 4G FC, 4 x SFP<br>(Loop Switch JBOD) | 2CH, 4G FC, 4 x SFP |
| **Host Channel** | 8CH, 8G FC, 8 x SFP | 4CH, 8G FC, 4 x SFP | | |
| **Drive Channel** | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | | |
| **Expansion Channel** | SAS 4x, 2 x (SFF-8088) | SAS 4x, 1 x (SFF-8088) | | |
| **Cache Memory(per Controller)** | 1GB - 4GB DDR-II | 1GB - 4GB DDR-II | Managed by RAID | |
| **Battery Backup (Memory)** | Yes | Optional | | |
| **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*2 | | Managed by RAID | |

* 1 : Cache Backup Module consists Battery Backup Unit and Flash Backup Module.
* 2 : SANWatch Management Suite is supported on ASIC400 or later models.
* 3 : Depending on connected RAID model, to support SAS or SATA-II 3Gb/s.

# EonStor Subsystem Specifications

## FC to SAS RAID Subsystem

| Product Image |  |  |  |  |
|---|---|---|---|---|
| **Model** | **S24F-R1840-4** | **S24F-G1840-4** | **S24F-R1440** | **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** | 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 - 2GB DDR-II | 1GB - 2GB DDR-II |
| **Cache Backup Module** *1 | Yes | Optional | Yes | Optional |
| **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*2 | | | |

## FC to SAS RAID Subsystem / SAS to SATA RAID Subsystem

| Product Image |  |  |  |  |
|---|---|---|---|---|
| **Model** | **S16F-R1840-4** | **S16F-G1840-4** | **A08S-C2134** | **A08S-C2133** |
| **Redundant Controller** | Yes | No | No | No |
| **Form Factor** | 3U Rackmount | 3U Rackmount | Tower or Desktop (Convertible) | Tower or Desktop (Convertible) |
| **Drive Bays** | 16 | 16 | 8 | 8 |
| **Max . Number of Drives** | 112 | 112 | 8 | 8 |
| **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, 8G FC, 4 x SFP | 2CH, SAS 4x, 2 x (SFF-8088) | 1CH, SAS 4x, 1 x (SFF-8088) |
| **Drive Channel** | SAS / SATA - II 3Gb/s | SAS / SATA-II 3Gb/s | SATA - II 3Gb/s | SATA - II 3Gb/s |
| **Expansion Channel** | SAS 4x, 2 x (SFF-8088) | SAS 4x, 1 x (SFF-8088) | – | – |
| **Cache Memory(per Controller)** | 1GB - 4GB DDR-II | 1GB - 4GB DDR-II | 256MB - 1GB DDR | 256MB - 1GB DDR |
| **Cache Backup Module** *1 | Yes | Optional | Optional | Optional |
| **Redundant Power Supply** | 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*2 | | | |

## 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)** | 512MB - 2GB DDR | 512MB - 2GB DDR | 512MB - 2GB DDR | 512MB - 2GB DDR |
| **Battery Backup (Memory)** | Yes | Optional | Yes | Optional |
| **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*2 | | | |

## SAS to SATA RAID Subsystem

| Product Image |  |  |  |  |
|---|---|---|---|---|
| **Model** | **A24S-G2130** | **A16S-G2130** | **A12S-G2130** | **A08S-G2130** |
| **Redundant Controller** | No | No | No | No |
| **Form Factor** | 4U Rackmount | 3U Rackmount | 2U Rackmount | 2U Rackmount |
| **Drive Bays** | 24 | 16 | 12 | 8 |
| **Max . Number of Drives** | 88 | 16 | 12 | 8 |
| **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** | 2CH, SAS 4x, 4 x (SFF-8088) | 2CH, SAS 4x, 2 x (SFF-8088) | 2CH, SAS 4x, 2 x (SFF-8088) | 2CH, SAS 4x, 2 x (SFF-8088) |
| **Drive Channel** | SATA - II 3Gb/s | SATA - II 3Gb/s | SATA-II 3Gb/s | SATA-II 3Gb/s |
| **Expansion Channel** | SAS 4x, 1 x (SFF-8088) | - | - | - |
| **Cache Memory(per Controller)** | 512MB - 2GB DDR | 256MB - 1GB DDR | 256MB - 1GB DDR | 256MB - 1GB DDR |
| **Battery Backup (Memory)** | Optional | Optional | Optional | Optional |
| **Redundant Power Supply** | Yes | Yes | Yes | Yes |
| **Redundant Fan Modules** | Yes | Yes | Yes | Yes |
| **Management** | Terminal emulation via RS-232 or Telnet,L CD keypad panel, embedded RAIDWatch, or JAVA-based SANWatch*1 | | | |

* 1 : Cache Backup Module consists Battery Backup Unit and Flash Backup Module.
* 2 : SANWatch Management Suite is supported on ASIC400 or later models.
* 3 : Depending on connected RAID model, to support SAS or SATA-II 3Gb/s.

# EonStor Subsystem Specifications

## SAS JBOD

| | | | | |
|---|---|---|---|---|
| Product Image |  |  |  |  |
| Model | S16S-J1000-R | S16S-J1000-S | S12S-J1002-R | S12S-J1000-G |
| Redundant Controller | Single upgradeable to redundant | No | 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*3) | 16 (SAS / SATA-II 3Gb/s*3) | 12 (SAS/SATA-II 3Gb/s*3) | 12 (SAS/SATA-II 3Gb/s*3) |
| RAID Engine | Managed by RAID | | | |
| RAID Levels | | | | |
| Host 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) |
| Drive Channel | | | | |
| Expansion Channel | | | | |
| Cache Memory(per Controller) | Managed by RAID | | Managed by RAID | |
| Battery Backup (Memory) | | | | |
| Redundant Power Supply | Yes | Yes | Yes | Yes |
| Redundant Fan Modules | Yes | Yes | Yes | Yes |
| Management | Managed by RAID | | | |

## 2.5” SAS JBOD / SAS to 2.5” RAID Subsystem

| | | | | |
|---|---|---|---|---|
| Product Image |  |  |  |  |
| Model | B12S-J1000-R | B12S-J1000-S | B12S-R1030 | B12S-G1031 |
| Redundant Controller | Yes | Single upgradeable to redundant | Yes | No |
| Form Factor | 1U Rackmount | 1U Rackmount | 1U Rackmount | 1U Rackmount |
| Drive Bays | 12 | 12 | 12 | 12 |
| Max . Number of Drives | 12 (2.5” SAS) | 12 (2.5” SAS) | 48 | 60 |
| RAID Engine | Managed by RAID | | 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 | SAS 4x, 4 x (SFF-8088) | SAS 4x, 2 x (SFF-8088) | 4CH, SAS 4x, 4 x (SFF-8088) | 2CH, SAS 4x, 2 x (SFF-8088) |
| Drive Channel | | | 2.5” SAS / SATA-II 3Gb/s | 2.5” SAS / SATA-II 3Gb/s |
| Expansion Channel | | | SAS 4x, 2 x (SFF-8088) | SAS 4x, 1 x (SFF-8088) |
| Cache Memory(per Controller) | Managed by RAID | | 512MB - 2GB DDR | 512MB - 2GB DDR |
| Battery Backup (Memory) | | | Yes | Optional |
| Redundant Power Supply | Yes | Yes | Yes | Yes |
| Redundant Fan Modules | Yes | Yes | Yes | Yes |
| Management | Managed by RAID | | Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or JAVA-based SANWatch*2 | |

## iSCSI to SAS RAID Subsystem

| | | | | |
|---|---|---|---|---|
| Product Image |  |  |  |  |
| Model | S16E-R1240 | S16E-G1240 | S16E-R1130 | S16E-G1130 |
| 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 | 64 | 80 |
| 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, iSCSI 10G, 4 x SFP+ | 2CH, iSCSI 10G, 2 x SFP+ | 8CH, 1Gb Ethernet, 8 x (RJ-45) | 4CH, 1Gb Ethernet, 4 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 - 4GB DDR-II | 1GB - 4GB DDR-II | 512MB - 2GB DDR | 512MB - 2GB DDR |
| Cache Backup Module *1 | Yes | Optional | Yes | Optional |
| 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*2 | | | |

## iSCSI to SAS RAID Subsystem / iSCSI to SATA RAID Subsystem

| | | | | |
|---|---|---|---|---|
| Product Image |  |  |  |  |
| Model | S12E-R1132 | S12E-G1133 | A16E-G2130 | A12E-G2121 |
| 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 | 48 | 60 | 16 | 12 |
| RAID Engine | ASIC400 | ASIC400 | ASIC400 | ASIC266 |
| 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) | 2CH, 1Gb Ethernet, 2 x (RJ-45) | 4CH, 1Gb Ethernet, 4 x (RJ-45) | 2CH, 1Gb Ethernet, 2 x (RJ-45) |
| Drive Channel | SAS / SATA-II 3Gb/s | SAS / SATA-II 3Gb/s | SATA-II 3Gb/s | SATA-II 3Gb/s |
| Expansion Channel | SAS 4x, 2 x (SFF-8088) | SAS 4x, 1 x (SFF-8088) | - | - |
| Cache Memory(per Controller) | 512MB - 2GB DDR | 512MB - 2GB DDR | 512MB - 2GB DDR | 512MB - 1GB DDR |
| Battery Backup (Memory) | Yes | Optional | Optional | Optional |
| 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*2 | | | |

* 1 : Cache Backup Module consists Battery Backup Unit and Flash Backup Module.
* 2 : SANWatch Management Suite is supported on ASIC400 or later models.
* 3 : Depending on connected RAID model, to support SAS or SATA-II 3Gb/s.

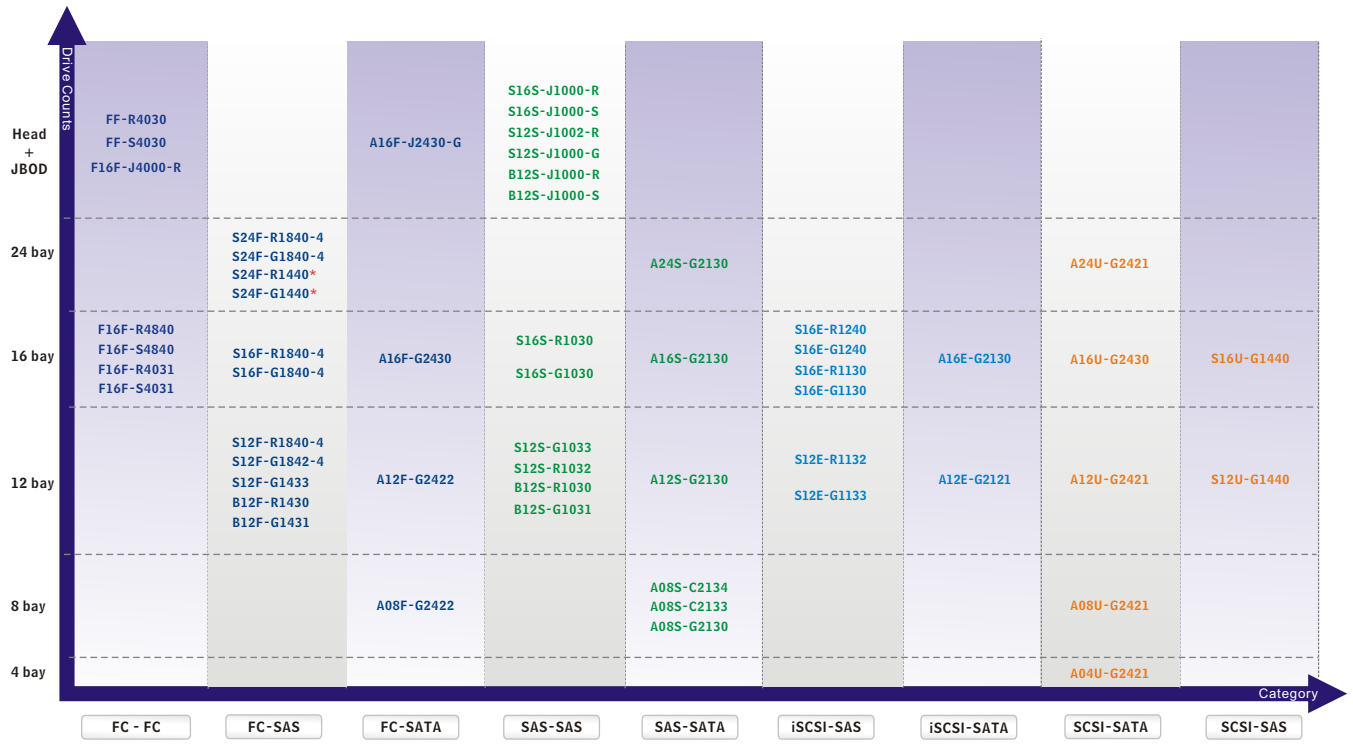
# EonStor Subsystem Specifications

| | SCSI to SAS RAID Subsystem | | SCSI to SATA RAID Subsystem | |
|---|---|---|---|---|
| **Product Image** |  |  |  |  |
| **Model** | **S12U-G1440** | **S16U-G1440** | **A24U-G2421** | **A16U-G2430** |
| **Redundant Controller** | No | No | No | No |
| **Form Factor** | 2U Rackmount | 3U Rackmount | 4U Rackmount | 3U Rackmount |
| **Drive Bays** | 12 | 16 | 24 | 16 |
| **Max . Number of Drives** | 84 | 112 | 24 | 16 |
| **RAID Engine** | ASIC667 | ASIC667 | ASIC266 | 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, SCSI-320, 4 x VHDCI | 2CH, SCSI-320, 4 x VHDCI | 2CH, SCSI-320, 4 x VHDCI | 2CH, SCSI-320, 4 x VHDCI |
| **Drive Channel** | SAS / SATA - II 3Gb/s | SAS / SATA-II 3Gb/s | SATA-II 3Gb/s | SATA-II 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 | 256MB - 1GB DDR | 256MB - 1GB DDR |
| **Battery Backup (Memory)** | Optional | Optional | Optional | Optional |
| **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*2 | | | |

| | SCSI to SATA RAID Subsystem | | |
|---|---|---|---|
| **Product Image** |  |  |  |
| **Model** | **A12U-G2421** | **A08U-G2421** | **A04U-G2421** |
| **Redundant Controller** | No | No | No |
| **Form Factor** | 2U Rackmount | 2U Rackmount | 1U Rackmount |
| **Drive Bays** | 12 | 8 | 4 |
| **Max . Number of Drives** | 12 | 8 | 4 |
| **RAID Engine** | ASIC266 | ASIC266 | ASIC266 |
| **RAID Levels** | 0, 1(0+1), 3, 5, 10, 30, 50 | 0, 1(0+1), 3, 5, 10, 30, 50 | 0, 1(0+1), 3, 5, 10, 30, 50 |
| **Host Channel** | 2CH, SCSI-320, 4 x VHDCI | 2CH, SCSI-320, 4 x VHDCI | 1 CH, SCSI-320, 2 x VHDCI |
| **Drive Channel** | SATA-II 3Gb/s | SATA-II 3Gb/s | SATA-II 3Gb/s |
| **Expansion Channel** | – | – | – |
| **Cache Memory(per Controller)** | 256MB - 1GB DDR | 256MB - 1GB DDR | 256MB - 1GB DDR |
| **Battery Backup (Memory)** | Optional | Optional | – |
| **Redundant Power Supply** | Yes | Yes | – |
| **Redundant Fan Modules** | Yes | Yes | Yes (Not hot-swappable) |
| **Management** | Terminal emulation via RS-232 or Telnet, LCD keypad panel, embedded RAIDWatch, or JAVA-based SANWatch*2 | | |

* 1 : Cache Backup Module consists Battery Backup Unit and Flash Backup Module.
* 2 : SANWatch Management Suite is supported on ASIC400 or later models.
* 3 : Depending on connected RAID model, to support SAS or SATA-II 3Gb/s.

## Subsystem Overview by Host interface




* S24F-R1440 and S24F-G1440 are not available in EU region.

As a VMware® Technology Alliance Partner (TAP) member, Infortrend will have closer collaboration with VMware to ensure future Infortrend RAID subsystems meet VMware compatibility requirements. Infortrend's VMware-compatible iSCSI-and FC-host arrays are available as a RAID head and 8-, 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.

### VMware Certified Infortrend RAID Subsystems

| FC-to-FC | FC-to-SAS | FC-to-SAS | FC-to-SATA | iSCSI |
|---|---|---|---|---|
| F16F-R4031 | S16F-R1430 | B12F-G1431 | A16F-G2430 | A16E-G2130 |
| F16F-S4031 | S16F-G1430 | S24F-R1840 | A12F-G2422 | S16E-R1130 |
| FF-R4030 | S12F-R1432 | S24F-G1840 | A08F-G2422 | S16E-G1130 |
| FF-S4030 | S12F-G1433 | S24F-R1440 | | S12E-R1132 |
| F16F-R4840 | S12F-R1840 | S24F-G1440 | | S12E-G1133 |
| F16F-S4840 | S12F-G1840 | S16F-R1840 | | |
| | B12F-R1430 | S16F-G1840 | | |

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 and 2008.

### Windows Server 2003 or 2008 certified Infortrend RAID Subsystems

| FC-to-FC | FC-to-SAS | FC-to-SAS | FC-to-SATA | FC-to-2.5" SAS |
|---|---|---|---|---|
| F16F-R4840 | S24F-R1840 | S12F-R1840 | A16F-G2430 | B12F-R1430 |
| F16F-S4840 | S24F-G1840 | S12F-G1840 | | B12F-G1431 |
| F16F-R4031 | | S12F-G1433 | | |
| F16F-S4031 | | S24F-R1440 | | |
| FF-R4030 | | S24F-G1440 | | |
| FF-S4030 | | | | |

| iSCSI | SCSI | SAS-to-SATA | SAS-to-SAS | SAS-to-2.5"SAS |
|---|---|---|---|---|
| S16E-R1131 | S16U-G1440 | A24S-G2130 | S16S-R1030 | B12S-R1030 |
| S16E-G1130 | S12U-G1440 | A16S-G2130 | S16S-G1030 | B12S-G1031 |
| A16E-G2130 | | A12S-G2130 | S12S-R1032 | |
| S12E-R1132 | | A08S-C2130 | S12S-G1033 | |
| S12E-G1133 | | A08S-C2131 | | |
| | | A08S-C2132 | | |

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