

EonStor™ F12F-G2A2

Fibre Channel Disk Array

2U Profile,
single-controller,
12-drive Fibre Channel
RAID Subsystem



FEATURE HIGHLIGHTS

- **2Gbps Fibre Host Channels;** Transferrate up to 200MB/sec for each channel.
- **Two FC Drive Channels** supporting 12 FC drives with transfer rate up to 200MB/sec.
- **Two 2Gbps FC Expansion Ports shared with drive channels;** Transferrate up to 200MB/sec for each channel.
- Multiple Logical Drive configurations, each with a different RAID level
- Auto detection, auto rebuild, hot spare, and hot swap capability
- LUN Filtering RAID-based and centralized access management in SAN
- Up to 1024 LUNs for host mapping
- **Intelligent Drive Handling:** for managing bad blocks during rebuild and the manual Media Scan function for data maintenance
- Up to 64TB per LD
- Up to 1GB SDRAM
- Variable rebuild priority to meet a variety of applications
- **RAIDWatch:** Browser-based GUI Manager on all major platforms
- **Auto Cache Flush and Auto Switch Caching Mode**
- **Auto Shutdown** shuts down the controller when certain critical environmental thresholds are exceeded.

OVERVIEW

Delivering unprecedented performance and reliability, the scalable, 2U EonStor F12F RAID subsystems integrate Infotrend's highly acclaimed fibre-to-fibre RAID controllers with a wide range of 12 hot-swappable, high-performance, industry-standard FC-2G drives in a single, uniquely designed, highly accessible storage enclosure that is able to endure the extreme physical stresses placed on storage

subsystems today. Featuring two FC-2G host channels the embedded FC-2G controller ensures superior performance, extreme reliability and exceptional data availability in today's most data-intensive storage environments. Two FC-2G host channels guarantee high levels of data availability and security. Two additional FC-2G expansion channels provide scalability options enabling users to increase the overall capacity of the storage network.

Equipped with three fully redundant, hot-swappable cooling fan modules and two fully redundant, hot-swappable power supply units, the uniquely designed 19-inch rack mountable enclosure has been customized to perform in the most rigorous storage environments where data availability is an imperative.

ARCHITECTURE

Running on architecture trusted by the most demanding applications, the subsystem is capable of a high level of performance. Its 64-bit separate-bus backbone is built around the dedicated XOR engines running at twice the data bus speed. The calculation of parity and distribution of data can be optimized with the free association between individual logical arrays and different optimization modes.

HIGH PERFORMANCE

Featuring a 64-bit 133 MHz memory bus, the unparalleled bandwidth makes the subsystem's high data throughput more than sufficient for small-to-medium sized servers or workstations. Data can be distributed at the burst rate up to 1066MB/sec. The dual independent PCI bus design virtually eliminates all imminent bottlenecks on IO traffic, providing sufficient throughput for a wide range of applications on fibre-based PCs, single-user workstations, NT, Linux, or Unix-based servers. These applications include disk-to-disk backup, Video on Demand, CCTV, and stream editing.

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INTELLIGENT DRIVE HANDLING

Media Scan is an innovative Intelligent Drive Handling function that can be used for data retrieval from degraded or damaged hard drives. If two bad blocks occur on two member drives of an array, the integrity of the stored data will be endangered. Intelligent Drive Handling capabilities can be used to retrieve data from the damaged sectors. Media Scan is able to handle low quality drives in both the degraded mode and during the rebuild process. Other Intelligent Drive Handling features, which provide further data security, include the transparent resetting of hung hard drives, Power-failure management and bad drive handling during LD expansion.

SPECIFICATIONS

RAID CONTROLLERS

- State-of-the-art 400MHz RISC processor with 256KB embedded L2 cache
- Infotrend Proprietary ASIC133 with XOR engine and ECC inside
- Standard 256MB 1GB cache memory in one SDRAM with optional BBU (Register Memory Only).
- LCD controller panel interface

- System Fan speed/Voltage/Temperature self-monitoring
- Two 2Gbps Fibre Channel expansion ports.
- One RS-232C (Audio Jack) serial port for text mode management.
- One 10/100M Ethernet Port
- 32KB NVRAM with RTC (Real Time Clock)
- Beeper

RAID OPERATION

- RAID level 0, 1, (0+1), 3, 5, 10, 30, 50, NRAID and JBOD
- Multiple RAID selection
- Hot-spare drive operation
- Drive hot-swapping
- Automatic background rebuild
- Online drive expansion
- Intelligent drive handling

HOST INTERFACES

- Two 2Gbps Fibre Channels
- SAN ready

MANAGEMENT SOFTWARE

- System monitoring via out-of-band Ethernet
- RAIDWatch manager software for all major platforms via an Ethernet port
- Firmware-embedded manager via RS-232C (Audio Jack) (platform independent)

EXTERNAL CONNECTIONS

- Four SFP ports for optical Fiber connection
- RS-232C (Audio Jack) serial port connector (38400, n, 8,1)
- One RJ45 Ethernet port

CHASSIS DIMENSIONS

- Without Handles: 446.2W x 88H x 485.5Dmm
- With Handles: 481.6W x 88H x 485.5Dmm

ACCESSORIES

Model Name	Description
IFT-9270ASCAB	RS-232C Serial Port Cable
IFT-9011	Null Modem
IFT-9270FBT	BBU Module
IFT-9272Cslider	Slider rail

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Americas

Infotrend Corporation
3150 Coronado Dr., Unit C
Santa Clara, CA 95054
Tel: 408-988-5088
Fax: 408-988-6288
sales@infotrend.com
support@infotrend.com
http://www.infotrend.com

Asia Pacific

Infotrend Technology, Inc.
8F, No. 102 Chung-Shan Rd., Sec. 3
Chung-Ho City, Taipei Hsien, Taiwan
Tel: (886)-2-2226-0126
Fax: (886)-2-2226-0020
sales@infotrend.com.tw
support@infotrend.com.tw
http://www.infotrend.com.tw

China

Infotrend Technology, Ltd.
Room 1210, West Wing, Tower One,
Junefield Plaza, No. 6 Xuanwumen Street,
Xuanwu District, Beijing, China. 100052
Tel: (86)-10-63106168
Fax: (86)-10-63106188
sales@infotrend.com.cn
support@infotrend.com.cn
http://www.infotrend.com.cn

Europe(EMEA)

Infotrend Europe Ltd.
5 Elmwood, Crockford Lane
Chineham Business Park
Basingstoke, Hampshire
RG24 8WG, UK
Tel: +44-1256-70-77-00
Fax: +44-1256-70-78-89
sales@infotrend-europe.com
support@infotrend-europe.com
http://www.infotrend-europe.com