








SPARE PARTS & ACCESSORIES



SPARE PARTS

	Description	Model Name
	Drive tray, Type-III bezel and Type-II LED lightpipe	IFT-9273CDTray

ACCESSORIES

	Description	Part Number
	Dummy Drive tray, Type-II bezel	IFT-9272CDTrayDmy
	SCSI external round cable, DB68 to VHDCI	IFT-9270UHSTCAB
	SCSI external round cable, VHDCI to VHDCI * One included in the shipping package	IFT-9270UJBODCAB
	RS-232C serial cable, audio-jack to Db9 * One included in the shipping package	IFT-9270ASCab
	Null modem, DB9 female to DB9 male, wires swapped * One included in the shipping package	IFT-9011
	Slide rail assembly, for ES 1U-4bay subsystem, 24" to 36" rack depth	IFT-9277CSlider36

EonStor® A04U-G2421

1U Profile, Single-controller
4-drive, SCSI-320 to SATA-II RAID Subsystem



Based on Infortrend's custom ASIC266 dedicated XOR engine, the EonStor A04U-G2421 provides unmatched RAID functionality with its wide variety of array configuration, maintenance, and monitoring capabilities. The subsystem delivers a cost-effective RAID storage solution.

This new subsystem takes advantages of SATA-II technology enhancements such as 3Gbps (Gigabit per second) transfer rates, Native Command Queuing for Digital Video content, such as surveillances systems, SOHO environments, and entry-level server attached storage.



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HIGHLIGHTS

- **SCSI-320 host channel; transfer rate up to 320MBps per channel**
- **Single RAID controller providing complete RAID functionality**
- **Compact 1U space-saving design**
- **Supports up to four (4) SATA-II, 3Gb disk drives; backward compatible with SATA-I disk drives**
- **SATA NCQ (Native Command Queuing) support**
- **Real-time event notification by a variety of methods**

OVERVIEW

The A04U-G2421 storage subsystem is ideal for building a shared storage pool for data backup. The subsystem has a SCSI-320 host channel with four (4) SATA-II disk drives in a smartly managed enclosure. The subsystem combines reliable storage capacity with SATA-II benefits, such as high performance and dedicated bandwidth, in a safe environment where the highest level of data availability is assured.

RELIABILITY

The Infortrend subsystem supports the complete list of RAID configuration levels, in the form of logical drives, logical volumes and logical partitions. Multiple RAID configurations can co-exist within one enclosure, each with distinct write policy, stripe size, and optimization modes.



The adaptive designs assure sufficient throughput for a wide range of applications running on Windows 2000/2003/XP and, Linux-based servers; Making it ideal for archiving, business networks, storage consolidation, and other applications. Combined with Infortrend's seamless firmware features such as IOSmart, DrvSmart and SysSmart, the ES A04U-G2421 delivers reliable storage for today's demanding environments.

AVAILABILITY

The ES A04U-G2421 provides quiet operation and unsurpassed reliability using sophisticated RAID firmware. To ensure the subsystem's reliability and uptime, the disk drives are redundant and hot-swappable. Two (2) cooling fans supply sufficient airflow.

SERVICEABILITY

The backplane-based design eliminates problems associated with cable connections between the controller and drives, and offers a higher level of serviceability.

MANAGEABILITY

The LED panel on the A04U-G2421 provides a convenient way to monitor the subsystem. In addition, the A04U-G2421 includes a number of interface features to keep users constantly aware and automatically notified of subsystem status. The system comes standard with an Ethernet port for local or remote management using simple telnet protocol or the feature-rich RAIDWatch manager software. RAIDWatch provides graphical presentations of array components, monitoring windows, and all configuration options.

INFOTREND SMART TECHNOLOGIES

Derived from more than ten years experience in RAID storage design, Infortrend's innovative firmware delivers Smart Technologies that provide enhanced storage solutions for every customer environment, from small organizations to large enterprises. These technologies enhance I/O processing, drive handling, and system management.



MAJOR MARKETS AND USES

Infortrend products are used in server-attached and networked data storage environments in major industries such as medical imaging, multi-media on demand (MOD), and digital media including video-on-demand, stream editing and more.

IOSmart

The IOSmart technologies consist of specific functions and configuration options that control various I/O characteristics in order to meet the rapidly increasing requirements of today's applications. The functions include adaptable strip size, adaptive write policy and guaranteed latency I/O which improve sequential write performance and ensure the fast and continuous flow of data.

DrvSmart

The DrvSmart utility provides an easy way to store data while keeping it safe. One of the main DrvSmart functions, Media Scan, retrieves data from degraded or damaged hard drives and handles low quality drives in both the degraded mode and during the rebuild process. Other DrvSmart features include disk cloning, drive roaming, SMART, transparent resetting of non-responsive hard drives, and RAID parity update tracking and recovery.

SysSmart

SysSmart combines enclosure monitoring and firmware management capabilities to minimize the chance of downtime caused by hardware failures. The auto data protection mechanisms were developed to ensure data safety. Other SysSmart functions include event-triggered as well as other monitoring utilities and approaches combined with the powerful RAIDWatch manager. Component status, voltage and temperature readings, and system events are instantly revealed through the manager's graphical interface.



SPECIFICATIONS

SUBSYSTEM CHARACTERISTICS

- 400MHz RISC CPU, 256KB L2 cache
- ASIC266 RAID engine
- DDR cache memory per controller 256MB
- SCSI-320 host channel 1
- LED panel 1
- COM port 1
- 10/100 Ethernet port 1

DRIVE INTERFACE

- Number of disk trays 4
- SATA-I/II drives support

HOST INTERFACE

- VHDCI SCSI port 2
- Data single channel bandwidth 320MBps
- Tag command queuing
- Multiple target Ids

RAID CONFIGURATIONS

- RAID levels 0, 1(0+1), 3, 5, 10, 30, 50, JBOD
- Max. 4 logical drives
- Max. 128 LUNs
- Multiple array configurations
- Automatic background rebuild
- Infortrend Smart Technologies

HIGH AVAILABILITY

- Subsystem self-diagnostics
- Hot-spare disk drives

MANAGEMENT SOFTWARE

- RAIDWatch GUI software
- Terminal via RS-232C
- Telnet over Ethernet
- Event notification methods
 - Email
 - Fax
 - LAN broadcast
 - SNMP traps
 - Cell phone message SMS
 - Instant messengers MSN

OS SUPPORT

- Microsoft Windows XP
- Microsoft Windows 2000 Server
- Microsoft Windows 2003 Server
- Sun Solaris ver. 8/9
- RedHat_Linux ver. 8/9, Enterprise ver.3
- SuSE Linux ver. 8/9

REQUIREMENTS

- AC Input 100VAC ~240VAC with PFC (auto-switching)
- DC Output 12V-12A; 5V-15A; 3.3V-15A
- Relative Humidity 5% to 95%, non-condensing
- Operating Temperature 0°C to 40°C

DIMENSIONS

- 1U, 19-inch rackmount chassis
- Without handles: 445 (W) x 43.5 (H) x 511 (D) mm (17.5 x 1.7 x 20.1 inches)
- With handles: 478 (W) x 43.5 (H) x 511 (D) mm (18.8 x 1.7 x 20.1 inches)