

DX8100HDDI Series RAID 5 Storage System

UP TO 12 SATA DRIVES, UP TO 9.0 TB EXTERNAL STORAGE

Product Features

- RAID 5 Configuration
- Up to 9.0 TB of External Storage Capacity
- SCSI-320 Host Channels with 320 MBps per Channel
- Single RAID Controller for Complete RAID Functionality
- Uses 3.0 Gbps SATA-II Drives and Is Backward Compatible with SATA-I Drives
- Modular Backplane with High Redundancy Enclosure
- Dual-Speed Cooling System for Quiet Operation
- Up to 2.0 GB Double-Data Rate (DDR) Cache Memory
- SATA Native Command Queuing (NCQ)



DX8100HDDI-9000

The **DX8100HDDI** (Infotrend® EonStor® A12U-G2421) is a single SCSI to SATA-II controller storage system that offers a RAID 5 external storage solution for DX8100 Series digital video recorders (DVRs). The DX8100 DVR uses one **DX8100HDDI** SCSI-320 host channel to store video data on the external storage unit.

The unit supports up to twelve 750 GB hard disk drives (HDDs), for a maximum storage capacity of 9.0 TB. Combining large storage capacity with SATA-II high performance and dedicated bandwidth, the **DX8100HDDI** offers a secure storage environment where the highest level of data availability is assured. High throughput is achieved by distributing input/output (I/O) traffic across PCI-X buses. High performance is delivered with the help of intelligent firmware algorithms.

The unit's RAID functionality ensures data protection through a simple, centralized management interface. The unit is managed by firmware and data protection software specifically developed for RAID 5.

To ensure a high level of system availability, each critical module (HDDs, power supplies, batteries, and cooling fans) is contained in a removable canister, which is redundant and hot swappable, and can be replaced quickly. The modules are integrated with the main signal path PCB through board-to-board or interface-specific connectors to eliminate points of failure.

The **DX8100HDDI** lets you manage and monitor its operating status locally or remotely, using the front panel LCD keypad, an RS-232-C terminal utility, or the Java™-based GUI manager client software running on a remote PC. All fault events and errors are instantly reported locally and remotely.

The **DX8100HDDI** IOSmart, DrvSmart, and SysSmart firmware technologies manage the stringent requirements of storage applications. They facilitate I/O processing, drive handling, and system management.

IOSmart offers specific functions and configuration options that control various I/O characteristics, and include adaptable stripe size, adaptive write policy, optimization modes, guaranteed latency I/O, and automatically adjusted multi-threaded, predictive read-ahead, sorted, or group writes.

DrvSmart offers fault-preventive algorithms that ensure data integrity when conditions related to hard drive imperfections occur. DrvSmart mechanisms correct minor defects, increase reaction time, allow more time to prepare a rebuild, and help minimize performance impact.

SysSmart combines enclosure monitoring and firmware management features in order to minimize the chance of down time caused by hardware failures. With SysSmart, the **DX8100HDDI** is smartly managed and protected against extreme operating conditions.

