

DX8100HDDI Series RAID 5 Storage System

UP TO 12 SATA DRIVES, UP TO 24 TB EXTERNAL STORAGE

Product Features

- RAID 5 Configuration
- Up to 24 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 1.0 GB Double-Data Rate (DDR) Cache Memory
- SATA Native Command Queuing (NCQ)



DX8100HDDI-24TB

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

The unit supports up to twelve 2 TB hard disk drives (HDDs), for a maximum storage capacity of 24 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. These technologies also 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 intelligently managed and protected against extreme operating conditions.



SURVEILLANCE
VIDEO .COM

800.955.5201

Email: sales@Surveillance-Video.com

TECHNICAL SPECIFICATIONS

MODELS

Part Number	Number of 2000 GB Drives	Storage in GB	
		Internal	Video
DX8100HDDI-6TB	3	6000	4000
DX8100HDDI-12TB	6	12,000	10,000
DX8100HDDI-18TB	9	18,000	16,000
DX8100HDDI-24TB	12	24,000	22,000

SUPPLIED ACCESSORIES

Resource disc, product disc, VHDCI-to-VHDCI SCSI round cable, RS-232-C cable (stereo mini jack to DB-9), null modem, hard drive attachment hardware, enclosure mounting hardware, 6 power cords (2 USA standard, 2 European standard, and 2 UK standard; depending on locality, the unit might include only USA, only European, only UK, or all types).

OPTIONAL ACCESSORIES

DX8100HDDI-RK	Rack mount kit for 23- to 36-inch rails
DX8100-ISCI	SCSI card for the DX8100 Series HVR
6750-00007	SCSI card for Digital Sentry® (DS)* products
6750-00011	SCSI card for DS* products

NOTE: The SCSI card is ordered separately. The SCSI cable is shipped with the DX8100HDDI Series RAID storage system.

SYSTEM

CPU	400 MHz, 256 KB L2 cache
RAID Engine	ASIC266
DDR Cache Memory	1.0 GB
SCSI 320 Host Channels	2
Single Channel Bandwidth	320 MBps
LCD Keypad Panel	1
Diagnostic LEDs	Yes
RAID Configurations	Level 5
Disk Trays	12
SATA I/II Supported	Yes
Logical Drives	12 maximum
Logical LUNs	108

ELECTRICAL

Input Voltage	100 VAC (at 6 A) to 240 VAC (at 3 A) ±10%, 50/60 Hz, with PFC (autoswitching)
Cable Type	USA (117 VAC), European (220 VAC), UK (250 VAC) All, 3 prongs, molded connector, 6 ft (1.8 m) cord
Power Consumption	Maximum 720 W

MECHANICAL

Connectors	
VHDCI	2 Ultra SCSI ports
Stereo Mini Jack	COM 1
RJ-45	10/100 Mbps Ethernet

GENERAL

Operating Temperature	32° to 104°F (0° to 40°C)
Relative Humidity	Maximum 95%, noncondensing

Dimensions

Desktop	19.3" D x 17.6" W x 3.5" H (49.02 x 44.70 x 8.89 cm)
Rack Mount	19.9" D x 19.0" W x 3.5" H (2 RUs) (50.55 x 48.26 x 8.89 cm)

Weight (Approximate)

Unit	Shipping
DX8100HDDI-6TB	54.0 lb (24.48 kg) 61.3 lb (27.79 kg)
DX8100HDDI-12TB	58.4 lb (26.51 kg) 65.5 lb (29.73 kg)
DX8100HDDI-18TB	62.9 lb (28.54 kg) 69.8 lb (31.67 kg)
DX8100HDDI-24TB	67.4 lb (30.56 kg) 74.1 lb (33.60 kg)

CERTIFICATIONS

- CE, Class B
- FCC, Class B
- UL/cUL Listed

OPERATING SYSTEMS SUPPORTED

DX8100	Microsoft® Windows® 2000 Professional and Windows XP Embedded
Digital Sentry	Windows XP Professional