

# 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)

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.



DX8100HDDI-24TB

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.



by Schneider Electric

International Standards  
Organization Registered Firm;  
ISO 9001 Quality System



C3648 / REVISED 12-15-11

# TECHNICAL SPECIFICATIONS

## MODELS

Part Number	Number of 2000 GB Drives	Storage in GB	
		Internal	Video
DX8100HDDI-6TB	3	6,000	4,000
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-ISCSI2	SCSI card for the DX8100 Series HVR
DSSRV-SCSI	Adaptec® SCSI Card 29320LPE for Digital Sentry® (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, 1.8 m (6 ft) 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	0° to 40°C (32° to 104°F)
Relative Humidity	Maximum 95%, noncondensing

### Dimensions

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

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

## CERTIFICATIONS

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

## OPERATING SYSTEMS SUPPORTED

DX8100	Microsoft® Windows® 2000 Professional and Windows XP Embedded
DS NVR	Windows 7

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