

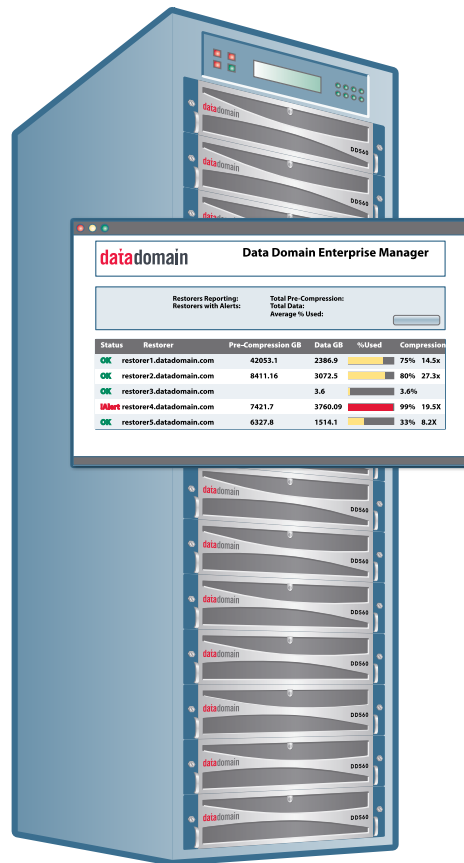


# Data Domain® DDX Array Series

## ENTERPRISE PROTECTION STORAGE FOR DATA CENTER SCALE DISK BACKUP AND NETWORK-BASED DISASTER RECOVERY

To protect your data, are you backing it up to keep daily versions? Are you sending it offsite to protect against disasters? If you are using current generation tape drives at LTO-3 speeds or higher, you also likely require a disk system to cache the backups to ensure faster tape drives can stream at their rated speed. But backup-to-disk does not minimize recovery from tape issues, which Gartner says fails 10% of the time. And, are you still moving data off-site for disaster recovery (DR) with trucks and tapes? Not the most ideal way to guarantee remote data protection happens simply, correctly and securely. Data Domain's Enterprise Protection Storage systems provide a simple, reliable, cost-effective disk-based alternative to tape. Leveraging your existing backup software and storing to disk, but eliminating data redundancy, data can be retained on disk for longer retention or vaulted across a Wide Area Network (WAN) affordably for DR.

Data Domain's DDX Array Series is the industry's most scalable, high performance protection storage system. Finally the power of Data Domain's Global Compression™ technology for data deduplication is available with data center performance and functionality. The DDX array is available in 4, 8 and 16 controller configurations, uses integrated or third party external storage, and is designed to provide data protection storage for data centers with at least 20 TB of application data. The DDX Series offers modular, scalable growth with the data center manageability expected in sites with large storage requirements.



Data Domain DDX Array

### MASSIVE DATA REDUCTION

Data Domain's DDX Series is the industry's most scalable and best price/performance protection storage array for the data center. Driven by Data Domain's market leading Global Compression technology, the DDX Series stores all backup images but uses only disk capacity for each unique data sequence, saving significant physical storage capacity. Data Domain is the only array vendor to offer the benefits of fast, inline deduplication, with high throughput to meet backup windows, and integrated WAN vaulting for off-site DR.

### TRANSFORMS ENTERPRISE STORAGE

#### High Capacity, High Throughput, and Operationally Efficient

The DDX Series offers over 15 PB capacity of useable storage per array for a typical enterprise data set and backup policy, making it simple to have 6-18 months of retention on disk in the same number of "floor tiles" that would normally provide only a couple days of disk staging. With its high performance system architecture, DDX offers up to 6.4 TB/hour of throughput. Modular scalability enables simple expandability as your business

challenges grow. With internal storage, it's the most operationally efficient disk-based solution using as little as 1.1 watts/TB of power and as little as 9U of 19" rack space per petabyte.

**Compatible with Existing Enterprise Backup Infrastructure**

DDX arrays are qualified with all leading enterprise backup software and easily integrate into existing infrastructures, without change, for data center data protection or distributed office data protection. All leading enterprise backup software is optimized to store to a file system or virtual tape library for best practices in backup-to-disk. Each DDX controller can connect to multiple backup media servers both via Ethernet as a file share, using NFS, CIFS or NDMP, and via Fibre Channel emulating virtual tape libraries. It takes only minutes to begin backing up and recovering data.

**Flexible DR Configuration**

The DDX Series complements all Data Domain appliances, acting as a hub for recovery images vaulted efficiently from up to 320 smaller sites running Data Domain appliances for disaster recovery (DR), remote office data protection or tape consolidation. The Data Domain Replicator software option makes WAN vaulting with DDX possible by reducing backup data by as much as 99% day to day, automating

and centralizing remote data movement with industry-leading bandwidth reduction. Once the data is safely in the DDX, enterprise backup software can duplicate it to a consolidated tape system.

**Ultra-Safe Backup Storage for Reliable Recovery**

Data Domain's Data Involulnerability Architecture provides the industry's best defense against data integrity issues. Continuous recovery verification along with extra levels of data protection continuously detect and protect against data integrity issues during initial backup and throughout the life cycle of the backup data. Unlike any other enterprise array or file system each DDX controller ensures recoverability is verified at backup time and continuously re-verified. The DDX Series can be configured with DD RAID, a dual disk parity RAID 6 configuration using internal storage; or provisioned from third party external RAID arrays.

**Simplified Data Center Management**

Using its integrated web-based management console, the Data Domain Enterprise Manager, the DDX Series is designed for administrative simplicity. The inherent management simplicity of the DDX combined with the benefits of data reduction and WAN vaulting further reduce your overall costs and enables you to seamlessly scale your data protection environment.

**Specifications**

	DDX		
	16	8	4
Number of Controllers	16	8	4
Capacity: Raw (3)	Up to 360 TB	Up to 180 TB	Up to 90 TB
Capacity: Standard (1,3)	Up to 6.4 PB	Up to 3.2 PB	Up to 1.6 PB
Capacity: Redundant (2,3)	Up to 15.6 PB	Up to 7.8 PB	Up to 3.9 PB
Throughput maximum	6.4 TB/hr	3.2 TB/hr	1.6 TB/hr
Remote office sites	320	160	80

1. Mix of typical enterprise data (file systems, databases, mail, user files), full backup weekly, incremental backup daily, to system capacity
2. Mix of typical enterprise data (file systems, databases, mail, user files), full backup daily, to system capacity
3. All capacity values are calculated using Base10 arithmetic (i.e., 1TB = 1,000,000,000,000 bytes)

**SOFTWARE**

Data Domain Operating System (DD OS) 4.0 or later

**Software Features**

Global Compression, Data Involulnerability Architecture including end-to-end verification (ongoing) and integrated dual disk parity RAID (DD RAID), telnet, ftp, ssh, email alerts, scheduled capacity reclamation (clean), Data Domain Replicator (add-on option)

**Management**

Data Domain Enterprise Manager, GUI, SNMP, and command line management interface

**Protocols**

NFS v3 over TCP, CIFS, NDMP v2, Tape Library emulation (VTL) over Fibre Channel

**HARDWARE PLATFORM**

19-inch rack-mount enclosure

**Controllers**

Up to 16 Data Domain DDX Controllers

2300 Central Expressway  
 Santa Clara  
 CA 95050  
 877.622.2587  
 sales@datadomain.com