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DXi6800 Site Planning Guide



Product Overview

The DXi6800 disk backup and replication appliance uses Quantum’s data deduplication technology to expand the amount of backup data users can retain on fast-recovery RAID systems by 10 to 50 times. The result is a cost-effective way for IT departments to store backup data on disk for months instead of days, providing high speed, reliable restores, increasing available data recovery points, and reducing media management.

For disaster recovery in distributed environments, the DXi6800 system makes automated WAN replication practical by dramatically reducing the bandwidth required to move backup data securely between sites.

DXi6800 solutions are integrated systems that are easy to install and use with all leading backup applications. They provide best-in-class performance with flexible, easy-to-use interface options including NAS, OST, virtual library, or mixed presentations, as well as Ethernet and Fibre Channel connectivity. The DXi6800 appliance is part of a comprehensive set of backup solutions, serviced and supported by Quantum, the leading global specialist in backup, recovery, and archive.

Note: This guide is for DXi6800 with DXi 2.2_68 Software.

Included With Your DXi6800

The DXi6800 are fully configured to your specifications and pre-tested in the factory. Every DXi6800 configuration arrives with all necessary parts included (rack excluded). Each system comes with an accessory kit containing rack-mount hardware and a Quick Reference and Documentation CD which includes the *User's Guide*.

Licenses

The following licenses are included with the DXi6800. Some licenses are pre-installed and some are included on License Certificates, as noted below.

- **NAS** - Enables the NAS interface to hosts. (License Certificate is included with all DXi6800 models.)

Follow the instructions on the License Certificate to obtain a license key at www.quantum.com.

- **VTL** - Enables the VTL interface to hosts. A license for 80 virtual tape drives is pre-installed, and additional virtual tape drives licenses can be added through the VTL license area. (License key is pre-installed on all DXi6800 models.)
- **Backup Application Specific** - Enables the backup application specific path to tape capability. (License key is pre-installed on all DXi6800 models.)

Note: DXi6800 supports NDMP V4.

- **Data Deduplication** - Enables the data deduplication capability. (License key is pre-installed on all DXi6800 models.)
- **Replication** - Enables replication capability. (License key is pre-installed on all DXi6800 models.)
- **Storage Capacity** - Enables the purchased storage capacity for the system. (License key is pre-installed on all DXi6800 models.)

A storage capacity license key is pre-installed for all capacity shipped from the factory. You must install license keys for additional capacity purchased after the initial point of sale.

Note: If you purchase a storage capacity upgrade, a License Certificate to enable the additional capacity is included with the upgrade.

- **OST** - Enables the OpenStorage (OST) connection. (License Certificate is included with all DXi6800 models.)

Follow the instructions on the License Certificate to obtain a license key at www.quantum.com. Installing the OST license also enables the OST Direct PTT (path to tape) capability on the DXi.

DXi Accent

Quantum's DXi Accent software accelerates backups and reduces network bandwidth requirements by distributing deduplication between the backup server and DXi appliances. With DXi Accent, backup windows are reduced and network bottlenecks are eliminated.

To use OST or DXi Accent, you must install the Quantum OST Client Plug-in on the media server. For information about installing the OST Plug-in and using DXi Accent, see the *Symantec NetBackup and Backup Exec OST Configuration Guide*.

Data-at-Rest Encryption

Data-at-Rest Encryption uses Self Encrypting Drive (SED) technology to secure all data stored on the DXi6800. This includes file data and metadata, configuration files, and the DXi software and operating system. When Data-at-Rest Encryption is enabled, all hard drives in the DXi are paired with the disk controllers using encryption keys. After this, accessing data on the drives requires the same encryption keys and controllers that were used to write the data. This ensures that a drive that is physically removed from the DXi cannot be read using another system or device.

To enable Data-at-Rest Encryption, the feature must be licensed, and all of the drive controllers and hard drives (active and hot spares) in the DXi must support Self Encrypting Drive (SED) technology. A DXi6800 configuration with all 3TB SED hard drives meets the requirements for Data-at-Rest Encryption.

Installation

Rack Compatibility

Nearly all standard four-post 19" server racks meeting EIA-310 specifications are compatible with the DXi6800 rack mount kits. Rack cabinets meeting EIA-310 specifications have an alternating pattern of three holes per rack unit with center-to-center hole spacing (beginning at the top hole of a 1U space) of 15.9 mm, 15.9 mm, and 12.7 mm (0.625 inch, 0.625 inch, and 0.5 inch) for the front and back vertical rails. For detailed information, refer to the *DXi6800 Installation and Configuration Guide* (6-67757).

Note: The rack mounting rails extend to support rack depths from 26.5 to 36.4 inches (67.3 to 92.4 cm).

When planning your rack installation, be sure to consider leaving room in the rack for future system expansion. You can expand the storage capacity of the DXi6800 by adding additional Array modules and Expansion modules (see [DXi6800 Configurations](#) on page 9). Also, if the rack includes a rear door, be sure to leave adequate room behind the rack to open it.

See [Physical Characteristics](#) on page 11 for node and expansion module rack space requirements.

DXi6800 Setup and Configuration

After hardware has been installed and initially configured, you are ready to use your DXi6800. The remote management console allows you to reconfigure your DXi6800 at any time.

Required Network Information

To utilize the remote management console of the DXi6800, you must connect it to your network.

Note the following considerations:

- DHCP (Dynamic Host Configuration Protocol) is not supported. You must provide a static IP address at the time of installation.
- The default IP Address is: **10.1.1.1**

You and other administrative users can always return to the remote management console to modify all DXi6800 settings, including network settings. Refer to the *DXi6000 User's Guide* included on the Quick Reference and Documentation CD for additional information on initially configuring your DXi6800.

Network Configuration

During network configuration, each physical virtual Ethernet port in the DXi6800 can be configured as a separate device. In addition, you can create bonded devices (logical ports) consisting of two or more physical virtual ports of the same link speed (1GbE or 10GbE). For each port or device, you can specify the MTU (Maximum Transmission Unit) frame size, and you can optionally assign the port or device to a VLAN (Virtual Local Area Network).

After you define devices (single port or bonded), you can create up to ten network interfaces for each device. Each interface has its own IP address information, and you can specify the types of traffic allowed on the interface (management, replication, or data). Finally, you can add routing information for an interface to enable connectivity with devices on different subnets.

Note: You can choose to allow any traffic type (management, replication, or data) on an interface. In this case, the routing of different traffic types, as well as firewall capability, must be controlled using the network infrastructure (routers and switches) that the DXi6800 is connected to.

Caution: For effective bonded network use, a properly configured network switch is required. (A network switch is not supplied with the DXi6800.) The DXi6800 bonding settings must match the switch settings. If the switch settings and the DXi6800 settings do not match, your system may become inaccessible through the switch.

Firewall Ports

The following firewall ports must be opened for correct function of the DXi6800.

TCP Ports Opened for Management Traffic

- 22 (SSH)
- 80 (HTTP)
- 161 (SNMP)
- 162 (SNMP, trap)
- 443 (HTTPS)
- 1311 (Dell OpenManage)
- 8406 (HTTP, jettyd)
- 8407 (HTTP, thrift)

TCP Ports Opened for DXi Replication Traffic

- 22 (DXi Replication)
- 80 (DXi Replication, OST)
- 1062 (DXi Replication, OST)

UDP Ports Opened for Data Traffic

- 111 (RPC, portmap)
- 628 (NFS, statd)
- 682 (NFS, rquotad)
- 880 (NFS, mountd)
- 2049 (NFS, nfsd)
- 32000 (NFS, lockd)

TCP Ports Opened for Data Traffic

- 111 (RPC, portmap)
- 139 (CIFS)
- 445 (CIFS)
- 628 (NFS, statd)
- 682 (NFS, rquotad)
- 860 (VTL)
- 880 (NFS, mountd)
- 2049 (NFS, nfsd)
- 3095 (OST)

- 3096 (OST)
- 3097 (OST)
- 3098 (OST)
- 3099 (OST)
- 3100 (OST)
- 3101 (OST)
- 3102 (OST)
- 3260 (VTL)
- 10001 (OST)
- 10002 (OST)
- 32000 (NFS, lockd)

Installation and Integration Services

Customers can perform the installation and integration of the DXi6800 themselves by following the detailed instructions in the *DXi6800 Installation and Configuration Guide* (6-67757), which is included with the DXi6800 shipment. Quantum recommends that system installation be performed only by qualified network or system administrators who have a working knowledge of ISV setup and configuration.

If you want to purchase professional installation services, please contact your Quantum Sales representative to discuss installation services.

Phone support for the installation process is available via the Quantum support number for your area. Quantum World Wide phone support is as follows:

Americas:

1-800-284-5101 (toll free)

+1-720-249-5700

Europe, Middle East and Africa:

+800-7826-8888 (toll free)

+49-6131-3241-1164

Asia Pacific:

+800-7826-8887 (toll free)

+603-7953-3010

Service

DXi6800 Warranty

The DXi6800 warranty includes one year of Quantum's **Bronze** Support Plan. This includes next business day on-site response, 5x9 telephone support, and on-line resources. This warranty covers the DXi6800 and all drives, and includes firmware downloads, telephone support, Email Reports, and Internet access to Quantum's online Customer Support web site.

The Quantum Customer Support web site features online service request processing, Web-based event status tracking, and a comprehensive Knowledge Base. Quantum's Knowledge Base gives you 7x24 real-time electronic access to complete product and support resources and the expertise of Quantum's Global Services organization.

- **Customer Replaceable Units (CRUs)** - Hard disk drive (900 GB, 2.5") in carrier, hard disk drive (3 TB, 3.5") in carrier, power supply module, power cord, external SAS cable, external Fibre Channel cable, external Ethernet cable (1GbE or 10GbE), 10GbE SFP+ module.
- **Field Replaceable Units (FRUs)** - Chassis (Node), chassis (Array module), chassis (Expansion module), 4 port 1GbE NIC, 2 port 10GbE NIC, 2 port 8 Gb Fibre Channel HBA, 4 port 8 Gb Fibre Channel HBA, 4 port 6 Gb SAS HBA, integrated RAID controller, DDR3 memory module, drive backplane and cables (Node), CPU and heatsink (Node), system board (Node), chassis fan, Array module controller, Array module battery backup module (BBU), Expansion module ESM

Note: The above lists may not be comprehensive. For additional information on FRUs, please contact your Quantum sales representative.

Service Package Upgrades

Quantum's Global Service organization is geared towards delivering the fastest possible response and root cause resolution, helping you maximize your backup investments, better manage processes, and make the best use of your resources. We ensure total customer satisfaction by providing comprehensive, responsive services on a worldwide basis.

A variety of support options are available to meet a range of budget and availability requirements. Quantum offers the following support plans:

- **Bronze Support Plan** — 5x9xNBD on-site, 5x9 telephone support
- **Next Business Day (NBD) Gold Support Plan** — 5x9xNBD on-site response time, 7x24 telephone support, 7x24 web support
- **Gold Support Plan** — 7x24x4 Hr on-site, 7x24 telephone support, 7x24 web support

For more information about these service plans, visit www.quantum.com or contact your Quantum sales representative.

Quantum service engineers are available around the world and are deployed to respond to onsite service demands. In addition, spare part depots are strategically located across

the globe; service technicians have access to the parts and equipment necessary to maintain or repair your DXi6800.

Email Reports

The Email Reports capability can be configured to automatically send XML-based reports to e-mail recipients.

The report represents a snapshot of the system information at the time the report is generated. Quantum recommends generating and saving a report before performing a software upgrade or reconfiguring the system.

StorageCare™ Guardian

StorageCare Guardian is a remote monitoring and diagnostic solution that enables Quantum to proactively monitor the health of Quantum systems over the Internet and use intelligent diagnostics data to remotely service the equipment if issues arise.

StorageCare Guardian delivers more reliable backups and faster resolution time for customers at no additional cost for supported products under warranty or service contract.

More Reliable Backups

Leveraging the intelligence inside Quantum's storage systems, StorageCare Guardian proactively monitors the health of the units, uses diagnostics data to predict possible failures, and determines whether or not the problem involves a Quantum product or other critical components in the environment.

Faster Resolution Time

When issues occur, StorageCare Guardian provides better diagnostics data that will enable Quantum to identify the root cause for rapid problem resolution.

StorageCare Guardian can be downloaded from:

<http://www.quantum.com/ServiceandSupport/Services/GuardianInformation/Index.aspx>

DXi Advanced Reporting

DXi Advanced Reporting, which is included on all DXi appliances, sets new standards for onboard intelligence by giving users a detailed view of internal appliance operations and provides them with years of backup and replication data for extended trend analysis.

DXi Advanced Reporting reduces administration time, improves operations, streamlines performance tuning, and helps users maximize the value of their DXi appliances.

Quantum Vision

Quantum Vision™ management software provides industry-unique capabilities, giving IT departments global management of all their Quantum disk and tape systems from a single console. Vision's centralized reporting and flexible trend analysis tools help users optimize system value by giving them automated, flexible access to the information they

need to make proactive decisions concerning on-going system administration, dynamic capacity planning, and system-wide troubleshooting.

DXi6800 Configurations

The Quantum DXi6800 can be ordered in the following configurations (see [Table 1](#)).

Table 1 DXi6800 Configurations

Configuration	Nominal Capacity*	Usable Capacity**	Array Modules (RBODs)	Expansion Modules (EBODs)	Total Rack Space Required
DXi6802 <ul style="list-style-type: none"> • 1 node (2U) • 4 x 6 Gb SAS ports (3 usable) • 4 x 8 Gb Fibre Channel ports (ingest and read) • 2 x 8 Gb Fibre Channel ports (path to tape, or ingest and read) • 2 x 10 GbE (SFP+) Ethernet ports • 3 x 1 GbE Ethernet ports • (Optional) Additional network adapter providing 2 x 10 GbE (SFP+) Ethernet ports or 4 x 1GbE Ethernet ports 	36 TB	13 TB / 26 TB	1	0	4U
	72 TB	39 TB / 52 TB	1	1	6U
	108 TB	65 TB / 78 TB	2	1	8U
	144 TB	91 TB / 104 TB	2	2	10U
	180 TB	117 TB / 130 TB	3	2	12U
	216 TB	143 TB / 156 TB	3	3	14U

* 1 TB = 1,000,000,000,000 bytes

** Usable storage capacity for installed Array or Expansion modules can be upgraded at any time after purchase in increments of 13 TB, up to a total of 26 TB per module. Storage capacity upgrades are enabled simply by adding a license key and rebooting the system. To purchase a storage capacity upgrade license, contact your Quantum sales representative. After you obtain the storage capacity license, refer to the section "Adding a License Key" in the *DXi6000 User's Guide* (6-67199) for instructions on completing the capacity upgrade.

DXi6800 Shipping Information

The DXi6800 is delivered in the following configurations (see [Table 2](#)). The Node and each Array module (RBOD) and Expansion module (EBOD) ships in its own box. All boxes for each DXi6800 configuration are shipped on a single pallet.

Table 2 DXi6800 Shipping Configurations

Nodes	Array Modules (RBODs)	Expansion Modules (EBODs)	Pallet Dimensions	Total Pallet Weight (Approximate)
1	1	0	Width: 40 in. (101.6 cm) Length: 25 in. (63.5 cm) Height: 26 in. (66.0 cm)	180 lbs. (81.6 kg)
1	1	1	Width: 40 in. (101.6 cm) Length: 25 in. (63.5 cm) Height: 36 in. (91.4 cm)	252 lbs. (114.3 kg)
1	2	1	Width: 40 in. (101.6 cm) Length: 48 in. (121.9 cm) Height: 26 in. (66.0 cm)	339 lbs. (153.8 kg)
1	2	2	Width: 40 in. (101.6 cm) Length: 48 in. (121.9 cm) Height: 35 in. (88.9 cm)	411 lbs. (186.4 kg)
1	3	2	Width: 40 in. (101.6 cm) Length: 48 in. (121.9 cm) Height: 36 in. (91.4 cm)	484 lbs. (219.5 kg)
1	3	3	Width: 40 in. (101.6 cm) Length: 48 in. (121.9 cm) Height: 45 in. (114.3 cm)	556 lbs. (252.2 kg)

DXi6800 Specifications

This section lists characteristics and specifications the DXi6800. These characteristics and specifications are categorized as follows:

- [Physical Characteristics](#)
- [Environmental Specifications](#)

Physical Characteristics

The following tables provide dimensions and other physical characteristics of the DXi6800 system components:

- [Table 3 - Physical Characteristics](#)
- [Table 4 - Storage Capacity](#)
- [Table 5 - Cable Drops](#)
- [Table 6 - Virtual Device Limits and Hardware Interfaces](#)
- [Table 7 - Power Requirements](#)

Table 3 Physical Characteristics

	DXi6800 Node	Array Module (RBOD)	Expansion Module (EBOD)
Height	2U, 3.4 inches (8.7 cm)	2U, 3.4 inches (8.7 cm)	2U, 3.4 inches (8.7 cm)
Width (side to side)	17.5 inches (44.4 cm)	17.8 inches (45.1 cm)	17.8 inches (45.1 cm)
Depth (front to back)	28.6 Inches (72.6 cm)	21.8 inches (55.2 cm)	21.8 inches (55.2 cm)
Weight (stand alone)	53.3 pounds (24.2 kg)	55.6 pounds (25.2 kg)	54.7 pounds (24.8 kg)
Rack Space Required	2U	2U	2U
Air clearance	Open 4 in. (10.2 cm) behind unit for proper air flow		

Table 4 Storage Capacity

DXi6800 Storage Capacity	
Usable capacity	From 13 to 156 TB
Capacity increments	Each Array Module (RBOD) and Expansion Module (EBOD) provides 26 TB of usable capacity, licensable in 13 TB increments.

Table 5 Cable Drops





DXi6800 Cable Drops	
Ethernet Cable Drops	<p>DXi6802 (3 x 1GbE ports and 2 x 10GbE ports) - 1 to 3 1GbE Ethernet connections and 1 to 2 10GbE Ethernet connections (optical or Twinax, see below) for NAS or OST connectivity, replication, and remote management.</p> <p>DXi6802 (7 x 1GbE ports and 2 x 10GbE ports) - 1 to 7 1GbE Ethernet connections and 1 to 2 10GbE Ethernet connections (optical or Twinax, see below) for NAS or OST connectivity, replication, and remote management.</p> <p>DXi6802 (3 x 1GbE ports and 4 x 10GbE ports) - 1 to 3 1GbE Ethernet connections and 1 to 4 10GbE Ethernet connections (optical or Twinax, see below) for NAS or OST connectivity, replication, and remote management.</p> <p>Note: For Cisco 5000 Series Data Center Class switches, Quantum recommends using the approved 5 meter Twinax cable type that is shipped with the DXi6800 system. Otherwise, Quantum recommends using optical (SFP+) connectivity.</p> <p>Note: The 10GbE Copper (Twinax) cable options that Quantum provides do not support all switches. Please note the supported switches during the purchase-configuration process, and if the Twinax cables supplied by Quantum are <i>not</i> compatible with your switch, then you will need to provide your own compatible Twinax cables from your switch vendor. Be sure to have these available before the system installation takes place.</p>
	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>10GbE Optical Cable</p>  </div> <div style="text-align: center;"> <p>10GbE Copper (Twinax) Cable</p>  </div> </div>
Fibre Channel Drops	<p>1 to 4 Fibre Channel connections for data transfer and 1 to 2 Fibre Channel connections path-to-tape (also configurable for data transfer).</p>
Power Outlets	<p>Node - 2 USA type 3-prong power outlets (Nema 5-15) or 2 C13 type 3-prong power outlets (IEC320 C13). For additional information, see Table 7.</p> <p>Array Module and Expansion Module (each) - 2 USA type 3-prong power outlets (Nema 5-15) or 2 C13 type 3-prong power outlets (IEC320 C13).</p>

Table 6 Virtual Device Limits and Hardware Interfaces

DXi6800 Virtual Device Limits and Hardware Interfaces	
Virtual Device Limits	<p>VTL backup target: 64 partitions maximum, 256 virtual tape drives (VTDs) maximum</p> <p>NAS backup target: 128 shares maximum (NFS or CIFS)</p> <p>OST backup target: 100 storage servers maximum</p> <p>Note: NFS version: NFSv2 and NFSv3</p> <p>Note: Samba version: 3.6.0</p>
Hardware / Interfaces	<p>3 ports 100/1000BASE-T Ethernet (RJ45 connector), 2 ports 10GbE Ethernet (optical 10GBASE-SR via LC connector or Twinax copper 10GBASESFP+Cu via SFP+), and 6 ports 8 Gb Fibre Channel (LC connector)</p> <p>Note: An optional network adapter may be added providing 4 additional 100/1000BASE-T Ethernet ports <i>or</i> 2 additional 10GbE Ethernet ports.</p>

Table 7 Power Requirements

DXi6800 Power Requirements		
Power Supplies and Cords	Node	Two (2) hot-swappable redundant power supplies
	Array Module (RBOD)	Two (2) USA type 3-prong power cords with IEC320 C13 to Nema 5-15 connectors:
	Expansion Module (EBOD)	Two (2) C13 to C14 type 3-prong power cords with IEC320 C13 to IEC320 C14 connectors:
		
		

Voltage	Node	100–240 VAC
	Array Module (RBOD)	100–240 VAC
	Expansion Module (EBOD)	100–240 VAC
Frequency	Node	50–60Hz
	Array Module (RBOD)	50–60Hz
	Expansion Module (EBOD)	50–60Hz
Average AC Current	Node	487 Watts, 4.9A @ 100VAC, 1662 BTU/hr 487 Watts, 2.2A @ 240VAC, 1662 BTU/hr
	Array Module (RBOD)	240 Watts, 2.5A @ 100VAC, 819 BTU/hr 240 Watts, 1.1A @ 240VAC, 819 BTU/hr
	Expansion Module (EBOD)	222 Watts, 2.3A @ 100VAC, 758 BTU/hr 222 Watts, 0.9A @ 240VAC, 758 BTU/hr
Inrush Peak AC Current	Maximum Configuration	42A @ 100 VAC 13A @ 240 VAC

Caution: To safeguard backups and to avoid potential data loss in the event of a power outage, Quantum recommends that you connect the DXi6800 to an uninterruptable power supply (UPS) with a minimum UPS capacity rating that meets the power requirements stated above.

Environmental Specifications

[Table 8](#) provides various DXi6800 environmental specifications.

Table 8 Environmental Specifications

Climatic Environment		
Temperature	Operating	10° to 35°C (50° to 95°F) with a maximum temperature gradient of 10°C per hour Note: 35°C (95°F) is the maximum temperature for the DXi6800 at sea level. For every 1,000 feet (305 meters) of altitude, the maximum temperature is reduced by 0.9°C.
	Shipping and storage	–20° to 60°C (4° to 140°F) with a maximum temperature gradient of 20°C per hour

Relative humidity	Operating	20% to 80% (non-condensing) with a maximum humidity gradient of 10% per hour
	Shipping and storage	5% to 95% (non-condensing) with a maximum humidity gradient of 10% per hour
Altitude	Operating	-16m to 3048 m (-50 to 10,000 ft)
	Shipping and storage	-16m to 10,600 m (-100 to 35,000 ft)

Vibration and Shock

Sine Vibration	Operating	Random 0.26 G's, 5-350 Hz, Operational axis 10 minutes, psd: 0.0002 G ² /Hz
	Non-operating	Random 0.5 G's, 5-350 Hz, Operational axis 10 minutes, psd: 0.0007 G ² /Hz
Shock Vibration	Operating	2 G's for 11 ms, half-sine input, 3 shock pulses in both + and - directions operational axis
	Non-operating	3.5 G's for 11 ms, half-sine input, 3 shock pulses in both + and - directions operational axis

Acoustic

Acoustic output	Operating	Sound Pressure Level 72 dbA maximum at any operation position
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Agency Approvals

Safety	IEC 60950-1 (ed. 2), CSA 60950-1-03/UL 60950-1 2nd Edition	
Emissions	EN55022 Class A, FCC Part 15 Class A, ICES-003 Class A, VCCI Class A, CISPR 22 Class A, CNS13438 Class A, KN22 Class A	
Immunity	EN55024/KN24: EN 61000-3-2 - Harmonic current emissions test EN 61000-3-3 - Voltage fluctuations and flicker in low-voltage supply systems test EN 55024:1998 - Information technology equipment - Immunity characteristics - Limits and methods of measurements EN 61000-4-2 - Electrostatic discharge immunity test EN 61000-4-3 - Radiated, radio-frequency, electromagnetic field immunity test EN 61000-4-4 - Electrical fast transient/burst immunity test EN 61000-4-5 - Surge immunity test EN 61000-4-6 - Immunity to conducted disturbances, induced by radio-frequency fields EN 61000-4-8 - Power frequency magnetic field immunity test EN 61000-4-11 - Voltage dips, short interruptions and voltage variations immunity test	

Caution: The DXi6800 systems are designed to be installed in a rack enclosure. Ensure that the operating temperature inside the rack enclosure does not exceed the maximum rated ambient temperature. Do not restrict air flow to the DXi6800 components.



For assistance, contact the Quantum Customer Support Center:
USA: 1-800-284-5101 (toll free) or +1-720-249-5700
EMEA: +800-7826-8888 (toll free) or +49-6131-3241-1164
APAC: +800-7826-8887 (toll free) or +603-7953-3010
Worldwide: <http://www.quantum.com/ServiceandSupport>

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About Quantum

Quantum Corp. (NYSE:QTM) is the leading global storage company specializing in backup, recovery and archive. Combining focused expertise, customer-driven innovation, and platform independence, Quantum provides a comprehensive range of disk, tape, media and software solutions supported by a world-class sales and service organization. This includes the DXi™-Series, the first disk backup solutions to extend the power of data deduplication and replication across the distributed enterprise. As a long-standing and trusted partner, the company works closely with a broad network of resellers, OEMs and other suppliers to meet customers' evolving data protection needs.