Dot Hill 3720 and 3730

8Gb Fibre Channel SAN Arrays

dot HILL®

3730

3720

Benefits

Assured Data Protection
- AssuredRemote™ - remote replication   **new!**
- AssuredSnap™ - 1000 snapshots
- AssuredCopy™ - 512 volume copies

Scalable Performance
- Dual or single RAID controller
- Data of 8Gb/sec. Fibre Channel
- up to 7 expansion units per system
- support for SAS, SATA, solid state drives
- max 144 drives - 3720, 96 - 3730
- 264,000 measured IOPS

Built in Redundancy
- RAID 0, 1, 3, 5, 6, 10, 50
- Redundant, hot swap components
- Built-in schedule capability

Environmentally Responsible
- EcoStor™ Economically and environmentally
  sound technologies
  - SimulCache™ - Low latency cache mirroring
  - Battery-free cache backup
  - DC power option
  - Drive-spin-down   **new!**
- RoHS-6 and WEEE compliant

Rugged Chassis
NEBS Level 3 Compliant
MIL STD 810F Compliant (Storage Requirements)
European Telco Compliant

8Gb Performance for Virtual Server Environments
The Dot Hill 3720 and 3730 offer exceptional performance with 8Gb Fibre Channel dual port speeds, doubling bandwidth, which is ideal for customers running virtual server environments. The 3720/3730 storage systems support for SATA, SSD and 3Gb and 6Gb SAS drives to support tiered storage initiatives, with expansion of up to seven JBOD systems.

AssuredRemote™ - Easy Remote Replication
Dot Hill's optional AssuredRemote™ software provides the easiest array-to-array remote replication solution on the market today, enabling disaster recovery protection and business continuity with support for up to 512 snapshots per storage array. By providing centralized, array-level replication, AssuredRemote offloads backup operations from critical application servers, and aids SMBs in complying with regulations such as the HIPAA and Sarbanes-Oxley acts.

First to Market with RAID Support for 6Gb SAS
The Dot Hill 3000 Series is the first RAID solution to feature out-of-the-box support for 6Gb SAS drives. Leveraging the product's 6Gb SAS-enabled mid-plane together with 6Gb SAS drives, customers can achieve improved system throughput that allows faster access to business data. The doubling of system bandwidth makes the 3000 Series ideal for performance-intensive applications such as server virtualization, server backup and video streaming.

The 3000 Series also features a number of eco-friendly enhancements such as drive-spin-down capability and 595 watt 80 PLUS-rated power supplies for reduced operating costs. The 3720/3730 also include Dot Hill's patented EcoStor™ "green" battery-free alternative for cache memory, which leverages a combination of super capacitors and flash memory that outlast traditional batteries. Business can lower maintenance and disposal costs, and reduce server and application down time associated with battery replacement.

Storage Made Easy
The 3720/3730 fibre channel SAN Arrays are easy to configure and manage with RAIDar 2.0, our intuitive web based interface which provides storage setup and monitoring without the need for host based software. RAIDar 2.0 saves time with configuration and installation wizards, and schedulers for snapshots and replication.

■ 3720 24-DRIVE ARRAY FEATURES

Drive size	2.5-inch drives
Drives per array	up to 24
Max capacity per chassis	12TB

■ PHYSICAL

Depth (excluding cables)	21.3 Inches / 54.0 cm
Height	3.5 Inches / 8.9 cm
Width	17.6 Inches / 44.7cm
Chassis weight	44 lbs / 20kg
w/146GB drives	60 bs / 27.2kg

■ 3730 12-DRIVE ARRAY FEATURES

Drive size	3.5-inch drives
Drives per array	up to 12
Max capacity per chassis	24TB

■ PHYSICAL

Depth (excluding cables)	23.7 Inches / 60.2 cm
Height	3.5 Inches / 8.9 cm
Width	17.6 Inches / 44.7 cm
Chassis weight	44lbs. / 20kg
w/500GB drives	68lbs. / 30.84kg

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3720/3730 specifications

■ GENERAL
Host speed	8Gb Fibre Channel
IOPs	264,000
Data protection	AssuredSnap™, AssuredCopy™, AssuredRemote™

■ EXPANSION
Max number of chassis	up to 8 (1 RAID, 7 JBOD)
Expansion units	Dot Hill 3120, 3130

■ PROTOCOLS AND STANDARDS
IP (RFC, 894, 1092)	SCSI-2 and SCSI-3

■ HOSTS
Supported Hosts	4 direct connected hosts, 8Gb, 4Gb, 2Gb Fibre Channel. 64 switched
Interface Type	FCP
External Ports	2 Single or 4 Dual Controller

■ DRIVES
Drive Types	SAS, SATA, SSD

■ RAID
Levels Supported	0, 1, 3, 5, 6, 10 and 50
RAID Type	Hardware
Cache Memory	2GB per controller
Cache Backup	Battery-free protection with super capacitors
Virtual disks per System	32
Volumes per virtual disk	256
Volumes per System	256
Mirrored Cache	Yes - SimulCache™
Super Capacitor Cache Backup	Yes
Cache Backup to Flash	Yes - Non-volatile

■ MANAGEMENT
Interface Types	10/100 Ethernet, Mini USB
Protocols Supported	SNMP, SSL, SSH, SMTP, SMI-S Provider, HTTP(S)
Management Consoles	WEB GUI, CLI
Management Software	RAIDar 2.0

■ POWER REQUIREMENTS - AC INPUT
Input Power Requirements	100-240VAC 50/60Hz
Max Input Power	436W max maximum continuous
Heat Dissipation	1488 BTUs/hour

■ POWER REQUIREMENTS - DC INPUT
Voltage	-36 to -72VDC, -48/-60V nominal
Max Input Power	436W maximum continuous
Heat Dissipation	1488 BTU/hour

■ TEMPERATURE AND HUMIDITY RANGES
Operating Temperature	41°F to 104°F (5°C to 40°C)
Shipping Temperature	-40°F to 158°F (-40°C to 70°C) Note: Derate 2°C for every km, up to 3000 meters
Operating Humidity	10% to 90% RH @ 104°F (40°C), non-condensing
Non-Operating Humidity	Up to 93% RH @ 104°F (40°C) non-condensing

■ DECLARED ACOUSTIC NOISE LEVELS
Sound Power	LWAd=6,75 B
Sound Pressure	LpAm - 55dB$_A$

■ SHOCK AND VIBRATION
Shock, Operational	10G's for 10 ms (3720) 5G's for 10 ms (3730)
Shock, Non-Operational	15G 11ms, half sine
Vibration, Operational	5Hz to 500Hz, 0.21Grms flat spectrum
Vibration, Non-Operational	3-365-3Hz, 1.22 Grms, z-axis, 0.85 Grms, X&Y axis shaped spectrum

■ HIGH-AVAILABILITY FEATURES
Redundant Hot-Swap Controllers	Yes
Redundant Hot-Swap Disk, Fans, Power	Yes
Dual Power Cords	Yes
Hot Standby Spare	Yes
Automatic Failover	Yes
Multi-Path Support	Yes
Snapshot with AssuredSnap™	Yes
Volume Copy with AssuredCopy™	Yes
Remote Replication with AssuredRemote™	Yes

■ REGULATORY
Safety	UL 60950-1, 1st edition, 2007-10-31 (USA) CAN/CSA-C22.2 No.60950-1-03, 1st Edition, 2006-7 (Canada) EN 60950-1:2006 (European Union) EC 60950-1:2001 (International) EN 60950-1:2001 +A11:2004 (GS Mark,,Germany) CCC Mark (power supply only, China PRC)
Electromagnetic Compatibility Emissions	CFR 47 Part 15 Subpart B Class A (U.S.A.) ICES-003:2004 Class A (Canada) EN 55022:2006 +A1:2007 Class A (EU) EN 300 386 V1.4.1:2008 Class A (EU Telco) AS/NZS CISPR 22:2009 Class A (Australia, New Zealand) VCCI:2009-04 Class A (Japan) GOST R 51318.22-99 Class A (Russia) KN 22 Class A (S. Korea) CNS 13438:2006 Class A (Taiwan)
Harmonics	EN61000-3-2:2006 (EU)
Flicker	EN 61000-3-3:1995 +A1:2001+A2:2005 (EU)
Immunity	EN 55024:1998 +A1:2001+A2:2003 (EU) EN 300 386 V1.4.1:2008 (EUTelco) GOST R 51318.24-99 (Russia) KN 24 (S. Korea)
RoHS and WEEE	RoHS-6/6 Compliance, China RoHS, WEEE
Country Approvals	United States, Canada, European Union (EU), Australia/New Zealand, Japan, China (PRC) , Russia, Mexico, South Africa, Germany, South Korea, Taiwan

■ SUPPORT
Software Warranty	90 days
Standard Hardware Warranty	3 years
Environmental Monitoring	SNMP, CLI, RAIDar 2.0, SMTP, SMI-S Provider
Phone-home Capability	Yes
Remote Diagnostics	Yes
Non-disruptive Updates	Yes
Non-disruptive Volume Expansion	Yes for primary volumes and snapshot volumes and snapshots

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