Dot Hill 2322

Entry-Level iSCSI storage array

Flexible and Scalable SAN Array

The 2322 from Dot Hill Systems serves the growing iSCSI SAN market allowing customers to easily create their own Ethernet-based storage area networks. These powerful systems are scalable, highly reliable, high-performance, and easy to set up and manage. With its high performance and high capacity, the Dot Hill 2322 storage systems are used for virtualized storage, file systems, Sharepoint, MS Exchange, MS SQL, just to name a few applications.

Built in Redundancy

- RAID 0, 1, 3, 5, 6, 10, 50
- Redundant, hot swap components
- AssuredSnap™ - Optional snapshot capability
- AssuredCopy™ - Additional data protection with full volume copies
- Built-in schedule capability

Scalability and Performance

- Dual or single RAID controller or JBOD
- Data rates of 1Gb/sec. (iSCSI)
- OS Support - Windows, Linux, Solaris

Environmentally Responsible / Lower TCO

- EcoStor™ - Economically and environmentally sound technologies
  - SimulCache™ - Low latency cache mirroring
  - Battery-free cache backup
  - DC power option
- RoHS-5 and WEEE compliant

The 2322 arrays support 24-drives housed in a 2 rackunit (2U) enclosure providing dual 1Gb iSCSI interfaces per controller to 2.5-inch SAS or solid state drives (SSDs). An internal SAS interface supports the expansion of the systems to support growing storage needs.

Advanced Data Protection Provides Instant Recovery

Is your data essential to your business operations? Then it makes sense to add data protection options - AssuredSnap™ and AssuredCopy™. AssuredSnap™ provides the 2322 storage array with volume snapshot capability allowing point-in-time copies that can be used to maximize business continuity. AssuredCopy™ creates a full volume copy which protects against disk failures. Dot Hill's 'set and forget' scheduler capability gives storage administrators peace of mind. Make sure you have the backups that enable quick point-in-time recovery.

Eco-friendly EcoStor™

The 2322 uses super capacitors instead of RAID cache batteries, providing infinite cache backup during a power loss while being environmentally friendly. Using super capacitors eliminates the need for battery maintenance, reducing the total cost of ownership.

Easy Management Tool with Wizards

Dot Hill storage systems are easy to configure and manage with improved RAIDar 2.0, the intuitive Web Based Interface (WBI) which provides storage setup and monitoring without the need for host based software. RAIDar 2.0 contains installation and configuration wizards to make management easy.

2322 iSCSI

Dot Hill 2322 specifications

GENERAL

Product Family	2002 Series
Product Type	RAID, JBOD
Chassis Configuration	2U
Disk Architecture	3Gb SAS
Max Drives per Chassis	24 drives
Total Disks Supported	96
Mounting Options	19" Rack, Rack tray
Max Number of Chassis	7 (1 RAID and 6 2U12 JBODs)
Max Capacity per Chassis	7.2TB
Data Management Services (DMS)	AssuredSnap™, AssuredCopy™

PROTOCOLS AND STANDARDS

iSCSI (IETF)	ICMP (RFC 792, 950, 1256)
IP (RFC, 894, 1092)	SCSI-2 and SCSI-3
TCP (RFC 793)	FC Channel

HOSTS

Initiators	All iSCSI compliant initiators
Interface Type	RJ-45
External Ports	2/4 iSCSI (Gigabit Ethernet) Single/Dual Controller

DRIVES

Max Number of Drives	96
2.5" Drive Options	SAS 36GB 15K RPM SAS 72GB 15K RPM SAS 146GB 15K RPM SAS 300GB 10K RPM SATA 32GB SSD SATA 80GB SSD

RAID

Levels Supported	Non-RAID, 0, 1, 3, 5, 6, 10 and 50
RAID Type	Hardware
Cache Memory	1GB per controller
Cache Backup	Battery-free protection with super capacitors
Virtual disks per System	32
Volumes per virtual disk	128
Volumes per System	256
Mirrored Cache	Yes - SimulCache™
Super Capacitor Cache Backup	Yes
Cache Backup to Flash	Yes - Non-volatile

MANAGEMENT

Interface Types	Mini DB9 RS232, 10/100 Ethernet
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 4.5–1.9A
Max Input Power	436W max maximum continuous
Heat Dissipation	1488 BTUs/hour

POWER REQUIREMENTS - DC INPUT

Voltage	-39 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	<6.75B Sound Power
Sound Pressure	<55dBA Sound Pressure

SHOCK AND VIBRATION

Shock, Operational	5.0G, 10ms, half sine
Shock, Non-Operational	15G 11ms, half sine
Vibration, Operational	0.21Grms Random 5Hz to 500Hz flat spectrum/feed forward
Vibration, Non-Operational (1hr)	X & Y axes - 0.85 Grms 3Hz - 365 Hz Z axis - 1.2 Grms 3Hz - 365H

HIGH-AVAILABILITY FEATURES

Redundant Hot-Swap Controllers	Yes
Redundant Hot-Swap Disk	Yes
Redundant Hot-Swap Fans	Yes
Redundant Hot-Swap 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

REGULATORY

Safety	UL60950-1 2007-10-31 (USA) CAN/CSA-C22.2 N. 60950-1-03 1st Edition 2006-07 (Canada) EN60950-1 2001 (EU) EN60950-1 2001 (International)
Electromagnetic Compatibility	CFR 47 Part 15 Subpart B Class A (USA) ICES-003:2004 Class A (Canada) AS/NZS CISPR 22: 2006 Class A (Australia/New Zealand) VCCI: 2008-4 Class A EN55022:2006 + A1:2007 Class A (European Union) EN51000-3-2 2006 (Harmonics) EN61000-3-3 2006 (Flicker) EN55024 1998 (Amended by A1:2001 and A2:2003) (EU, Immunity)
RoHS and WEEE	RoHS-5 Compliance , China RoHS, WEEE
Country Approvals	Australia/New Zealand, Canada, European Union (EU), Germany (GS Mark), Japan,United States

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

PHYSICAL

Height	3.5 Inches / 8.9cm
Depth (excluding cables)	21.3 Inches / 54.0 cm
Width	17.6 Inches / 44.7cm
Chassis Weight	44 lbs / 20kg
Chassis (w/148GB drives) Weight	58 bs / 26.4kg

Specifications are subject to change at any time.