

Dot Hill 2332

High Performance entry level iSCSI Storage Array



Built in Redundancy

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

Scalability and Performance

- Dual or single RAID controller or JBOD
- Utilizes existing Ethernet network infrastructures
- 1.7TB base capacity that scales to 192TB (utilizing 2TB SATA drives)
- OS Support - Windows, Linux, SuSE, Solaris

Easy Set-up and Management

- Unified LUN architecture streamlines configuration
- RAIDar 2.0 full featured management interface

Environmentally Responsible / Lower TCO

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

Premium performance for Ethernet-based SANs

The 2332 from Dot Hill Systems serves the growing iSCSI SAN market allowing customers to easily create their own Ethernet-based storage area networks. The powerful 2332 storage systems are scalable, highly reliable, high-performance, and easy to set up and manage. With its high performance and high capacity, Dot Hill 2332 storage systems are used for virtualized storage, file systems, Share Point, MS Exchange, MS SQL, just to name a few applications.

The 2332 features a 12-drive array housed in a 2 rackunit (2U) enclosure providing dual 1Gb iSCSI interfaces per controller to 3.5-inch SAS, SATA, or solid state drives. Up to seven JBOD expansion units can be easily added.

Eco-friendly EcoStor™

The 2332 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.

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 2332 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.

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.

Dot Hill 2332 specifications

■ GENERAL

Product Family	2002 Series
Product Type	RAID, JBOD
Chassis Configuration	2U
Disk Architecture	3Gb SAS/3Gb SATA-II
Max Drives per Chassis	12 drives
Total Capacity	1.7TB/192TB (with expansion trays)
Total Disks	96
Mounting Options	19" Rack, Telco Rack, Rack tray
Max Number of Chassis	8 (1 RAID and 7 JBOD)
Max Capacity per Chassis	24TB (2TB SATA-II drives)
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
3.5" Drive Options	SAS 300GB 15K RPM SAS 450GB 15K RPM SAS 600GB 15K RPM SATA-II 500GB 7200 RPM SATA-II 750GB 7200 RPM SATA-II 1TB 7200 RPM SATA-II 2TB 7200 RPM 32GB, 64GB, 80GB, 160GB 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
Management Consoles	WEB GUI, CLI
Management Software	RAIDar 2.0

■ POWER REQUIREMENTS - AC

Input Power Requirements	100-240VAC, 50/60 Hz, 4.5-1.9A
Max Input Power	475W maximum continuous
Heat Dissipation	1622 BTU/hour

■ POWER REQUIREMENTS - DC

Voltage	-39 to -72VDC, -48/-60V nominal
Max Input Power	500W maximum continuous
Heat Dissipation	1706 BTU/hour

■ TEMPERATURE AND HUMIDITY RANGES

MIL STD 810G, method 501.5

Operating Temperature	41°F to 104°F (5°C to 40°C)
Short Term Operating Temp. (<96 hours)	23°F to 131°F (-5°C to 55°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	<6.03B 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 - 365Hz

■ 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 w/AssuredSnap	Yes
Volume Copy with AssuredCopy	Yes

■ REGULATORY

Safety	UL 60950-1:2003 (USA) CAN/CSA-C22.2 No.60950-1-03 (Canada) EN 60950-1 :2001 + A11 (EU) IEC 60950-1 :2001 (International)
Electromagnetic Compatibility	CFR 47 Part 15 Subpart B (U.S.A. Class A) ICES-003:2004 Class A EN55022:2006 + A1:2007 Class A EN51000-3-2 2006 (Harmonics) EN61000-3-3 1995 (Amended by A1:2001 and A2:2005) (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, China (PRC), European Union (EU), Germany (GS Mark), Japan, United States

■ SUPPORT

Software Warranty	90 days
Standard Hardware Warranty	3 years
Environmental Monitoring	SNMP, CLI, RAIDar, SMTP
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)	23.7 Inches / 60.2cm
Width	17.6 Inches / 44.7cm
Chassis Weight	44lbs. / 19.96kg
Chassis (w/250GB drives) Weight	65lbs. / 29.48kg



Specifications are subject to change at any time.