Dot Hill 2522

Entry-Level SAS storage array





Built in Redundancy

- RAID O, 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 of 3Gb/sec. Serial-attached SCSI
- OS Support Windows, Linux, Solaris
- Modular design protects your investment
- Enterprise-class features and functionality without the enterprise price

Environmentally Responsible / Lower TCO

- EcoStor[™] Economically and environmentally sound technologies
- SimulCache™ Low latency cache mirroring
- Battery-free cache backup
- DC power option
- RoHS-6 and WEEE compliant

Flexible, Scalable Direct Attached SAS Array

The 2522 features a 24-drive hardware RAID storage array housed in a 2 rackunit (2U) enclosure providing dual 3Gb SAS interfaces per controller to internal 2.5 inch or SSD drives. The 2522 is a natural evolution of the world-class Dot Hill 2000 Series product family as well as an upgrade option for older SCSI attach systems, adding support for the emerging 2.5 inch enterprise disk technology to deliver higher IOPS performance in a 2U rack size and shorter chassis depth of under 600mm including cable bends. In addition to the two host attach SAS connections, an internal SAS interface will support up to six additional drive enclosures with 3.5" SAS or SATA drives or three additional enclosures with 2.5" SAS or SATA drives. With support for a total of 96 attached drives managed by the Dot Hill R/Evolutionary RAID architecture, the 2522 is a low-cost hardware RAID storage solution quickly adding additional server storage.

Revolutionary connectivity, availability, quality and value

The 2522 uses revolutionary SimulCache™ technology that instantly and simultaneously mirrors cache between RAID controllers, leading to significant performance improvements over traditional implementations. The use of RAID cache batteries has been completely eliminated with the introduction of super capacitors, providing infinite cache backup during a power loss while being environmentally friendly. AssuredSnap™ provides the 2522 with built-in volume snapshot capability allowing point-in-time copies that can be used to maximize business continuity. AssuredCopy™ creates a full volume copy (vs. a logical volume copy with AssuredSnap) providing additional protection against vdisk failure and eliminating application I/O contention when accessing the same data blocks.

Storage made easy

The 2522 is 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.

2522 SAS

Dot Hill 2522 specifications

Product Family Product Type Chassis Configuration Disk Architecture Max Drives per Chassis Total Disks Supported Mounting Options Max Number of Chassis Max Capacity per Chassis Data Management Services (DMS)	
PROTOCOLS AND STANDA ICMP (RFC 792, 950, 1256) IP (RFC, 894, 1092)	ARDS TCP (RFC 793) SCSI-2 and SCSI-3
HOSTS Initiators Interface Type External Ports	SAS (Serial-attached SCSI) SAS SFF8088 2 Single or 4 Dual Controller
Max Number of Drives Drive Options	96 SAS 36GB 15K RPM SAS 72GB 15K RPM SAS 146GB 10K RPM SAS 30GGB 10K RPM SATA 32GB SSD SATA 64GB SSD SATA 80GB SSD SATA 160GB SSD
Levels Supported RAID Type Cache Memory Cache Backup Virtual disks per System Volumes per virtual disk Volumes per System Mirrored Cache Super Capacitor Cache Backup Cache Backup to Flash	Non-RAID, O, 1, 3, 5, 6, 10 and 50 Hardware 1GB per controller Battery-free protection with super capacitors 32 256 256 Yes - SimulCache™ Yes Yes - Non-volatile
MANAGEMENT Interface Types Protocols Supported Management Consoles Management Software	Mini DB9 RS232, 10/100 Ethernet SNMP, SSL, SSH, SMTP, SMI-S Provider, HTTP(S) WEB GUI, CLI RAIDer 2.0
	AC INPUT
POWER REQUIREMENTS -	DC INPUT
Voltage Max Input Power Heat Dissipation	-34 to -72VDC, -48/-60V nominal 436W maximum continuous 1488 BTU/hour
TEMPERATURE AND HUM Operating Temperature Shipping Temperature	### ANGES

Shock, Non-Operational	15G 11ms, half sine
Vibration, Operational	O.21Grms Random 5Hz to 500Hz flat spectrum/feed forward
Vibration, Non-Operational	0.5G 1 octave/minute 5Hz to 500Hz to
	5 Hz sine sweep
	O.5Grms Random 20Hz to-1000Hz flat spectrum
	RES
Redundant Hot-Swap Controllers 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 Snapshot with AssuredSnap™	Yes Yes
Volume Copy with AssuredCopy™	Yes
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REGULATORY	
Safety	UL 60950-1:2001 (USA)
	CAN/CSA-C22.2 No.60950-1-03 (Canada)
	EN 60950-1 :2001 (EU) IEC 60950-1 :2001 (International)
	ico 00330-1 .2001 (international)
Electromagnetic Compatibility	
Emissions	CFR 47 Part 15 Subpart B Class A (USA)
	IECS-003: 2004 Class A (Canada)
	AS/NZS CISPR 22: 2006 Class A (Australia/
	New Zealand) VCCI: 2008-4 Class A
	EN 55022: 2006 Class A (European Union)
Harmonics	EN 61000-3-2: 2006
Flicker	EN 61000-3-3: 1995 (Amended by A1:
	2001 and A2: 2005)
Immunity	EN 55024: 1998 (Amended by A1: 2001and
	A2: 2003)
RoHS and WEEE	RoHS-6 Compliance , China RoHS, WEEE
Country Approvals	Australia/New Zealand, Canada,
, , , ,	European Union (EU), Germany
	(GS Mark), Japan, United States
CURRORT	
SUPPORT	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 / 54.0cm
Width	17.6 Inches / 44.7cm

44 lbs / 20kg

Chassis (w/148GB drives) Weight 58 lbs/ 26.4kg

■ DECLARED ACOUSTIC NOISE LEVELS

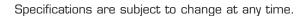
<6.75B Sound Power

<55dBA Sound Pressure

Sound Power

Chassis Weight

Sound Pressure



Operating Humidity

Non-Operating Humidity

meters

non-condensing

10% to 90% RH @ 104°F (40°C),

Up to 93% RH @ 104°F (40°C)