



# AssuredSAN™

## 3720 and 3730 Data Protection Solutions



## BENEFITS

### Assured Data Protection

AssuredSnap™ - 1000 snapshots  
AssuredCopy™ - 512 volume copies  
AssuredRemote™ remote replication

### Scalable Performance

Dual RAID controller  
Data rates up to 8Gb/sec. FC  
up to 7 expansion units per system  
support for SAS, SATA, solid state drives  
max 144 drives - 3720, 96 - 3730

### Built in Redundancy

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

### Green Features

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

### Virtualization

Citrix, VMware certified, including VAAI, SRM  
Veeam certified

### Rugged Chassis

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

## STORE, BACKUP, AND RESTORE 8Gb Fibre Channel Systems

Dot Hill's AssuredSAN™ Solutions offer an innovative and comprehensive view of storage management — Store, Back up and Restore instantly. The AssuredSAN™ Solutions combine high performance and high capacity storage with the ease of the RAIDar management GUI which provides a complete set of features and tools to ensure that storage administration is the easiest job in the datacenter.

Today's solutions should not only store data, but ensure that it can be restored in an instant. That is where the AssuredSAN™ 3720 and 3730 come in – their 8Gb Fibre Channel hosts can double throughput, providing power to support your most demanding applications, along with optimal levels of data protection. With Dot Hill's solutions you have the assurance that you can store, instantly back up, and instantly restore from that spot. And you don't have to be a storage expert to make it work.

## Complete Data Protection Included

The AssuredSAN 3720 and 3730 Fibre Channel Arrays come fully licensed with 1000 AssuredSnaps and 256 AssuredCopies – providing necessary protection for business critical applications such as email. AssuredSnap instantly takes volume snapshots, creating point-in-time backups that can be used to instantly restore your data after a system failure. In addition, you get AssuredCopy, which protects against disk failures.

## Applications

AssuredSAN data protection arrays are ideal for business critical applications such as email, databases, and file sharing. Benefiting from 8Gb host connections, the 3720 and 3730 easily support I/O intensive applications such as virtual server environments, server backup and video streaming.



## Environmentally Responsible

Utilizing Dot Hill's patented EcoStor™ technology, these systems have completely eliminated cache batteries, using instead super capacitors and flash memory to provide infinite cache backup during a power loss, while being environmentally friendly.

The AssuredSAN 3000 Series also features energy saving drive-spin-down. With the addition of drive spin-down, mixed drive type support and dual protocol interfaces, users can now combine both high performance primary volumes and secondary storage with different performance and energy usage profiles in the same physical unit.

## Enhanced Performance

The storage systems leverage patented SimulCache™ technology that instantly and simultaneously mirrors cache between RAID controllers, leading to significant performance improvements over traditional implementations.

## AssuredCopy™ and AssuredSnap™

The AssuredSAN data protection and disaster recovery solution comes fully licensed with both AssuredSnap™ and AssuredCopy™ data protection software. With up to 1000 snapshots capability, AssuredSANs offer necessary protection for business critical applications such as email, databases, and file sharing.

AssuredSnap instantly takes volume snapshots, creating point-in-time backups that can be used to instantly restore your data after a system failure. In addition, you get AssuredCopy, which protects against disk failures.

## Storage Made Easy

AssuredSAN 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.

- Easy to set up Configuration, Installation Wizards
- Automated 'Set and Forget' scheduler for snapshots
- Instant Backup AssuredSnap instantly takes point in time copies
- Instant Restore Eliminate tape recoveries. Use our snapshots to step back in time.
- International Localization for Dutch, French, German, Italian, Spanish, Simplified Chinese, Traditional Chinese, Japanese, and Korean including translated online help.

## models

### Without Software - 3720C, 3730C

The AssuredSAN 3720C and 3730C are Channel models that ship with the storage array, drives, rail kit, cables, Installation Guide, and Bronze support. The Try & Buy menu in the RAIDar management interface allows customers to start using data protection or remote replication software at any time.

#### With 2.5" Drives - 3720C and 3720

Drives per array up to 24  
Max capacity per chassis 24TB

#### PHYSICAL

Depth (excluding cables) 21.3 Inches / 54.0 cm  
Height 3.5 Inches / 8.9 cm  
Width 17.6 Inches / 44.7 cm  
Chassis weight 44 lbs / 20kg

## support

### Warranty

AssuredSANs come with a three year standard hardware warranty, a 90 day software warranty, and Bronze level support, which provides you with expert 24x7 technical telephone support, access to our SANsolve and the Customer Resource Center with knowledge base articles, product documentation and firmware upgrades.

### Gold and Platinum Support Programs

Dot Hill is equipped to provide the extra level of support you may need to meet your service level agreements. Our Gold and Platinum levels of support are designed to offer maximum responsiveness anywhere in the world. These programs include options for same day advance shipment, parts depot access, next business day and 4-hour onsite service. We also offer extended hardware warranties and extended software support packages.

### Professional Services

In addition, Dot Hill offers professional services such as installation, remote monitoring, and remote site DR set up, and configuration, designed to make it simple and straightforward to fully deploy AssuredSAN storage solutions.

## shipping information

### 3720C

Packaged product weight 67.5 lbs with drives

Packaged product dimensions Width 25.5", Height 10", Depth 28.5"

### 3730C

Packaged product weight 85.5 lbs with drives

Packaged product dimensions Width 25.5", Height 10", Depth 28.5"

### 3720 and 3730 OEM Model

Available for volume OEM customers. An OEM Customization Kit is available which allows OEM customers to create their own branded storage solutions.

#### With 3.5" Drives - 3730C and 3730

Drives per array up to 12  
Max capacity per chassis 36TB

#### 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



## 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
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## HOSTS

<i>Fibre Channel</i>	
Supported Hosts	4 direct connected hosts, 8Gb, 4Gb, 2Gb
Interface Type	Fibre Channel. 64 switched
External Ports	FCP
	2 per controller/4 maximum

## DRIVE SUPPORT

3720	SAS, SSD
3730	SAS, SATA, SSD

\* For most current drive support information ,  
visit <http://www.dothill.com/storage-arrays/drive-options/>

## RAID

Levels Supported	0, 1, 3, 5, 6, 10 and 50
RAID Type	Hardware
Cache Memory	2GB per controller
Cache Backup	Battery-free protection w/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

### Bronze Rated - high efficiency

82% @ 20% load
86% @ 80% load
85% @ 100% load

## 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 <sub>A</sub>

## SHOCK AND VIBRATION

Shock, Operational	5G's for 10 ms
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

Note: Dot Hill AssuredSAN disk arrays chassis, power supplies, and controllers support NEBS, ETSI, and MIL-STD-810G shock and vibration standards. Hard disk drive selection may alter ability to achieve full compliance with these specifications as HDD's have varying S&V performance characteristics.

## HIGH-AVAILABILITY FEATURES

Redundant Hot-Swap Controllers
Redundant Hot-Swap Disk, Fans, Power
Dual Power Cords
Hot Standby Spare
Automatic Failover
Multi-Path Support

## 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)
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## Electromagnetic Compatibility

<i>Emissions</i>	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)
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## Harmonics

<i>Flicker</i>	EN 61000-3-2:2006 (EU)
<i>Immunity</i>	EN 61000-3-3:1995 +A1:2001+A2:2005 (EU) 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
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## 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
SMTP	Yes
Remote Diagnostics	Yes
Non-disruptive Updates	Yes
Non-disruptive Volume Expansion	Yes for primary volumes and snapshot volumes and snapshots

