

# Data Protection Solutions 4000 Series



# AssuredSAN™

## Smart, Simple Storage

For 2K, 4K, HD, and 3D Workflows, the AssuredSAN™ 4000 Series offer a smart, simple approach to storage management. 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 easy storage administration. In common with all AssuredSAN storage arrays, the 4000 Series boasts 99.999% availability due to stringent design standards, testing, and diagnostics.

The AssuredSAN 4000 Series sets a new storage standard for postproduction workflows. Offering 5200 megabytes per second sequential reads and 3000 megabytes per second sequential writes, this Series is ideal for video editing, broadcast, and telecommunications capture.



The 4000 Series is a shared storage system that works with shared file systems like StorNext and Xsan to easily support multiple simultaneous streams of 2K, 4K, HD and 3D content, without dropping frames.

Similarly, the 4000 system has the high performance and low latency characteristics to meet data capture requirements for modern telecommunications digital networks and broadcast applications.

Ideal applications for the 4000 Series include onset acquisition, video editing, finishing, rendering, streaming, broadcast, and telecommunications capture.

*Manufactured in the USA  
ISO 9001:2008 Certified*

## Benefits

### SCALABLE PERFORMANCE

- SimulCache™ - Low latency cache mirroring up
- Data rates up to 8Gb/sec FC or 6Gb/sec SAS
- Up to 7 expansion units per system
- Support for SAS, Nearline SAS, SDDs
- Max 192 drives for Model 4520 and 4720, 96 for Model 4530 and 4730

### BUILT IN REDUNDANCY

- Dual RAID controller
- Redundant, hot swap components
- RAID 0, 1, 3, 5, 6, 10, 50

### CERTIFICATIONS AND VIRTUALIZATION

- Citrix, Microsoft, VMware certified
- VAAI connector support

### GREEN FEATURES

- EcoStor™ battery-free cache backup
- Drive-spin-down
- RoHS-6 and WEEE compliant

### RUGGED CHASSIS

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

**Contact us today!**  
858.571.4330 or [saleseng@chassisplans.com](mailto:saleseng@chassisplans.com)  
[www.chassis-plans.com](http://www.chassis-plans.com)

## MODEL SAS 4520, FIBER CHANNEL 4720

### DIMENSIONS

17.6" X 3.5" X 20.46" (44.7cm X 8.9cm X 51.9cm)

### WEIGHT

36.4 lbs / 16.5kg, with drives 51.8 lbs / 23.5kg

### DRIVES

SAS 4520, Fiber Channel 4720 ..... 2.5" Drives  
Drives per array ..... up to 24  
Max capacity per chassis ..... 24TB  
Drive support ..... SAS, Nearline SAS, SSD  
Expansion ..... 192 drives (1 RAID, 7 JBOD)

## SPECIFICATIONS

### GENERAL

Fibre channel host speed ..... 8Gb Fibre Channel  
Fibre channel interface type ..... FCP  
External Ports ..... 4 per controller, 8 maximum  
SAS Initiators ..... SAS 2.0 (serial-attached SCSI)  
SAS Interface Type ..... SAS SFF8088

### COMPLIANCE & STANDARDS

IP (RFC, 894, 1092) ..... SCSI-2 and SCSI-3  
NEBS Level 3  
MIL-STD-810G

### RAID & SYSTEM CONFIGURATION

Levels Supported ..... 0, 1, 3, 5, 6, 10 and 50  
Cache Memory ..... 4GB per controller  
Virtual disks per System ..... 32  
Volumes per virtual disk ..... 256  
Volumes per System ..... 1024  
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

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## MODEL SAS 4530, FIBER CHANNEL 4730

### DIMENSIONS

18.99" X 3.43" X 20.57" (48.24cm X 8.71cm X 52.25 cm)

### WEIGHT

58.2 lbs / 26.9kg, with drives 78.2 lbs / 35.5kg

### DRIVES

SAS 4530, Fiber Channel 4730 ..... 3.5" Drives  
Drives per array ..... up to 12  
Max capacity per chassis ..... 36TB  
Drive support ..... Nearline SAS  
Expansion ..... 96 drives (1 RAID, 7 JBOD)

### POWER REQUIREMENTS

Input Power Requirements ..... 100-240VAC 50/60Hz  
Max Input Power ..... 436W max maximum continuous  
Heat Dissipation ..... 1488 BTUs/hour

### TEMPERATURE AND HUMIDITY

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

### 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



Contact us today!  
858.571.4330 or saleseng@chassisplans.com  
www.chassis-plans.com

## Who We Are...

Chassis Plans designs, fabricates and integrates standard and custom high-performance computing platforms and LCD displays for the military and heavy industry. Using COTS components, Chassis Plans provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs. With an in-house engineering department, Chassis Plans can also design and build rapid prototypes. Chassis Plans is an ISO 9001:2008 certified company that produces products domestically and has been in business in Southern California for over a decade.

### Chassis Plans

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AssuredSAN-4000-0812