



# ExaSAN PCIe Solution

ExaSAN-W8: Designed for large-scale television or cinema post production studios, 10-12 workstations

## FEATURES AND BENEFITS

### High Performance Cost-Effective

With multiple video streams in a shared SAN environment, bandwidth is often the bottleneck. Due to insufficient bandwidth or high FC implementation costs, The ExaSAN has leveraged a native External PCI-Express protocol, which is greatly different from traditional FC. Our ExaRAID HD's single controller system has a high bandwidth up to 10Gb, and the dual independent ExaRAID HD system could even has a high bandwidth up to 20Gb.

### Optimization and Easy to use

MaxTronic offers "SAN Performance Equalization Mode" under the ExaSAN. This feature basically enhanced users to setup optimizing performance easily. For multiple workstations, this not only reduces frame drop, avoids delays, but also maintains sustainable transfer performance with high stability. With GUI RAIDGuardX, the user can configure the RAID easily. In addition, the status of devices such as hard drives, fans and temperature can also be monitored and managed. Users can read the link status and perform system firmware updates effortlessly.

### Fully Integration and Compatibility

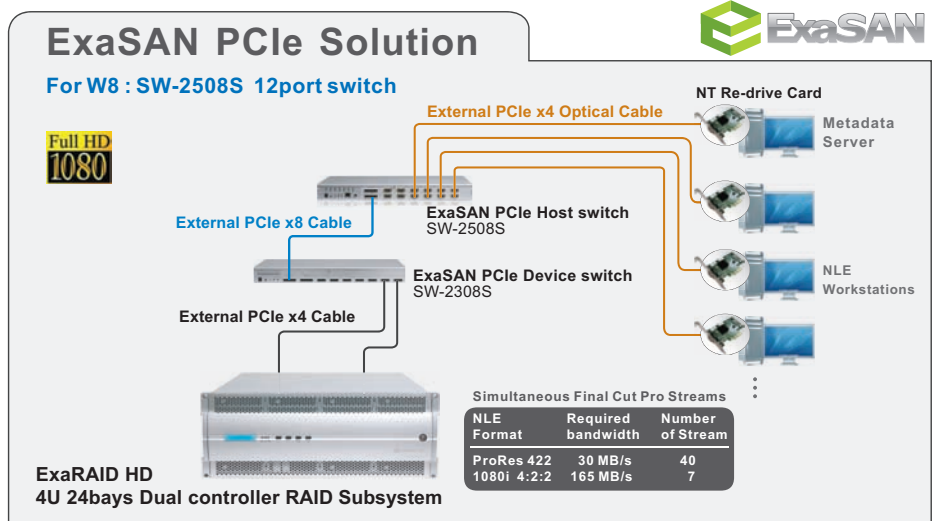
The ExaSAN can be fully integrated with Xsan and Final Cut Pro systems, which can implement a shared volume and shared editing SAN environment. In addition, ExaSAN PCIe HBA is also compatible with the non-MAC workstations such as Windows platforms. With SAN management software from MetaSAN and StorNext, users can integrate workstations with different platforms to access ExaRAID HD media content simultaneously, realizing a viable cross-platform SAN framework. ExaSAN affords users the most flexible workflows and it meets the requirements of multiple applications.

### ExaSAN-SAN Total Solution

The ExaSAN is a complete external PCI-Express SAN solution that consists of all SAN components required for SAN deployment. Such as the disk array system-ExaRAID HD, ExaSAN PCIe Device Switch, ExaSAN PCIe Host Switch, external PCIe optical cable and PCIe HBA. The advantages of a single vendor include the overall ExaSAN framework efficiency and implementation cost.

## PRODUCT HIGHLIGHTS

- ExaSAN - a total solution for SAN infrastructure.
- Transfer bandwidth up to 20 Gigabits per second.
- Leading technology by utilizing external PCI-Express.
- Cross-platform OS support (Mac and Windows).
- Support up to 12 host workstations and 28 ExaRAID HD systems.



# PCIe



# Technical Specifications





## ExaRAID HD series

<b>Model No.</b>	SA-8808D
<b>Storage System</b>	4U 24bays
<b>Host Interface</b>	PCIe 2.5Gbs x4
<b>Disk Interface</b>	Support Serial ATA II (SATA II) disks
<b>Controller No.</b>	Dual independent
<b>Data Transfer Rate</b>	Dual transfer rate up to 20Gbs.
<b>RAID Level</b>	JBOD, 0, 1, 0+1, 5, 6
<b>Controller and Spec.</b>	<ul style="list-style-type: none"> <li>• Intel IOP 64bits RISC processor.</li> <li>• Hardware XOR/Multi-Parity engine.</li> <li>• DDR II-667MHz memory, ECC-protected, Up to 2GB.</li> <li>• Support battery backup protection.</li> <li>• 32KB NVRAM with real-time clock (RTC).</li> </ul>
<b>Power</b>	700W (350W x3, 2+1 Redundant)
<b>Power and Cooling</b>	Hot swap power and cooling modules.
<b>Battery Backup Module</b>	BBM-1164Lithium cells battery module. Cached data will be kept for up to 72 hrs (50mA/100hrs).
<b>PCIe Adaptor</b>	Dual PCIe x4 Ports HBA Card
<b>Cable</b>	External PCIe x4 Cable 2M x 2
<b>Temperature</b>	Operation mode : 0 °C to 40 °C Non-operation mode : -20 °C to 70 °C
<b>Humidity</b>	Operation mode : 15% to 85 % Non-operation mode : 5% to 95 %
<b>Dimension</b>	482(W) x 565(D) x 175(H) mm
<b>Weight</b>	34 kgs

## Management

- Java-based GUI - RAIDGuard™ X GUI.
- Support remote management.
- Event logging to text files with event viewer.
- Event notification by E-mail (SMTP).
- Centralized multiple RAID system management.
- Support LCD panel for RAID management.
- Support both in-band and out-band management.
- Support RAID management by EFI and BIOS.
- Support RS232 terminal management.
- Support SNMP (Simple Network Management Protocol).
- Selective initialization method with on-the-fly background initialization and performance evaluation
- Supports over-2TB volumes
- Online RAID group expansion and level migration
- Snapshot for fast backup and restore
- Supports write-back and write-through caching
- Automatic drive insertion/removal detection and fast disk rebuilding
- Online bad block data recovery and reallocation
- Online disk scrubbing with data refresh and parity regeneration
- Disk health monitoring by S.M.A.R.T.
- Array roaming and drive traveling with redundant on-disk meta data

## ExaSAN Switch series

Photo		
<b>Model No.</b>	SW-2308S	SW-2508S
<b>Functions and Spec.</b>	<ul style="list-style-type: none"> <li>• Storage connected (ExaRAID HD), each switch has 7 ports.</li> <li>• Support cascade up to 4 ExaSAN PCIe Device Switches. (Total 28 ExaRAID HD systems)</li> </ul>	<ul style="list-style-type: none"> <li>• Intel IOP 64bits RISC processor.</li> <li>• DDR II-667MHz 512MB memory with ECC-protected.</li> <li>• Host connected, ExaSAN PCIe Host Switch offer to 12 ports.</li> <li>• On-board 10/100Mb Ethernet Port.</li> <li>• RS-232 connect by phone jack cable. (Reserved)</li> <li>• GUI Management.</li> </ul>
<b>Bandwidth</b>	<ul style="list-style-type: none"> <li>• PCIe x4 for Storage.</li> <li>• PCIe x8 to cascade ExaSAN PCIe Host Switch.</li> </ul>	<ul style="list-style-type: none"> <li>• PCIe x4 for Host.</li> <li>• PCIe x8 to cascade ExaSAN PCIe Device Switch.</li> </ul>
<b>Cable Length</b>	PCIe x8 (2M)	30M optical cable (default) or 100M optical cable (option)
<b>Dimensions</b>	432(W) x 304(D) x 44.5(H) mm	432(W) x 304(D) x 44.5(H) mm
<b>Cooling</b>	Side-to-Side Fan Cooling	Side-to-Side Fan Cooling
<b>Humidity</b>	5%~85%, Non-condensing	5%~85%, Non-condensing
<b>Operating Temperature</b>	0 °C to 50 °C	0 °C to 40 °C
<b>LED</b>	<ul style="list-style-type: none"> <li>• Power LED x 1 (Housing: White, Link: Blue)</li> <li>• Port LED x 9 (Link: Blue)</li> <li>• FAN LED (Right, Left) x 2 (Fail: Red)</li> </ul>	<ul style="list-style-type: none"> <li>• Power LED x1 (Housing: White, Link: Blue)</li> <li>• Port LED x 14 (Link/Access: Blue)</li> <li>• FAN LED (Right, Left) x 2 (Fail: Red)</li> </ul>
<b>Power Adaptor</b>	AC Input : 110~240V,1.0A,50~60Hz DC Output : 12V,3A (DC adaptor will in the back side of switch box)	
<b>Power Connector</b>	DC power jack DC 12V/3A	
<b>Certifications</b>	RoHS; Safety : UL, CE	

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