

## 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

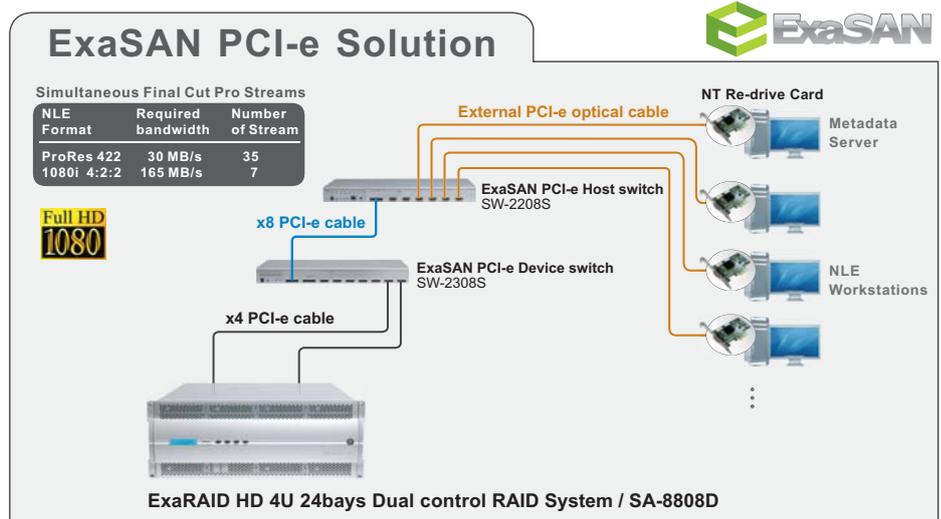
The ExaSAN can be fully integrated with Xsan and Final Cut Pro systems, which can implement a shared volume and shared editing SAN environment. In addition, ExaSAN PCI-e HBA is also compatible with the non-MAC workstations such as Windows platforms. With SAN management software from MetaSAN and StorNext, 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 Gen1 Switch, ExaSAN Gen2 Switch, external PCI-e optical cable and PCI-e 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.



# Technical Specifications

## ExaRAID HD series

Photo				
<b>Model No.</b>	SA-4508S	SA-6608S	SA-6608D	SA-8808D
<b>Storage System</b>	2U 12bays	3U 16bays	3U 16bays	4U 24bays
<b>Controller No.</b>	Single	Single	Dual independent	Dual independent
<b>Host Interface</b>	PCI-e 2.5Gbs x 4	PCI-e 2.5Gbs x 4	PCI-e 2.5Gbs x 8	PCI-e 2.5Gbs x 8
<b>Data Transfer Rate</b>	Transfer rate up to 10Gbs.		Dual transfer rate up to 20Gbs.	
<b>Disk Interface</b>	Support 12/16/24 Serial ATA II (SATA II) disks.			
<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> </ul>		<ul style="list-style-type: none"> <li>Support battery backup protection.</li> <li>32KB NVRAM with real-time clock (RTC).</li> </ul>	
<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 hours (50mA/100hrs).			
<b>Management</b>	<ul style="list-style-type: none"> <li>Java-based GUI - RAIDGuard™ X GUI.</li> <li>Support remote management.</li> <li>Event logging to text files with event viewer.</li> <li>Event notification by E-mail (SMTP).</li> <li>Centralized multiple RAID system management.</li> </ul>		<ul style="list-style-type: none"> <li>Support LCD panel for RAID management.</li> <li>Support both in-band and out-band management.</li> <li>Support RAID management by EFI and BIOS.</li> <li>Support RS232 terminal management.</li> <li>Support SNMP (Simple Network Management Protocol).</li> </ul>	
<b>PCI-e Adaptor</b>	Single PCI-e x4 port HBA Card		Dual PCI-e x4 Ports HBA Card	
<b>Cable</b>	External PCI-e x4 Cable 2M x 1		External PCI-e x4 Cable 2M x 2	
<b>Physical and Environment</b>				
<b>Dimension</b>	2U 482(W) x 564(D) x 88(H) mm 3U 482(W) x 574(D) x 131(H) mm 4U 482(W) x 565(D) x 175(H) mm	<b>Power Requirements</b> 2U 420W (420W x 2, Redundant) 3U 460W (460W x 2, Redundant) 4U 700W (350W x 3, 2+1Redundant)	<b>Humidity</b> Operation mode : 15% to 85 % Non-operation mode : 5% to 95 %	<b>Temperature</b> Operation mode : 0 °C to 40 °C Non-operation mode : -20 °C to 70 °C

## ExaSAN Switch series

Photo		
<b>Model No.</b>	SW-2308S	SW-2208S (6 ports) / SW-2508S (12 ports)
<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 Gen1 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 Gen2 Switch offer to 6 / 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>PCI-e x4 for Storage.</li> <li>PCI-e x8 to cascade ExaSAN Gen2 switch.</li> </ul>	<ul style="list-style-type: none"> <li>PCI-e x4 for Host.</li> <li>PCI-e x8 to cascade ExaSAN Gen1 switch.</li> </ul>
<b>Cable Length</b>	PCI-e 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 7 (SW-2208S) / Port LED x 14 (SW-2508S) (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	

\* Specifications and product offerings may vary without further notice.

\* Above trademarks are belong to respective owners.

Headquarters  
**MaxTronic International Co., Ltd.**  
 TEL : 886-2-2218 4875  
 FAX : 886-2-2218 4896  
<http://www.maxtronic.com.tw>

America  
**Arena-MaxTronic Inc.**  
 TEL : 1-626-334 1888  
 FAX : 1-626-334 6888  
<http://www.maxtronic.com>

China  
 欧骅股份有限公司 北京代表处  
 TEL : 86-10-5873 4580  
 FAX : 86-10-5873 4585  
<http://www.maxtronic.com.cn>