



## WASABI STORAGE BUILDER for IP-SAN v2.3

Open up new opportunities into the high-growth small and medium business (SMB) market by giving your customers IP-SAN storage solutions that provide the security, scalability, and flexibility advantages of a traditional SAN at a lower cost. Using Wasabi Storage Builder® and economical, off-the-shelf hardware, OEMs and system integrators can rapidly create powerful IP-SAN storage systems priced specifically for the SMB sector.

### Maximize Current IT Investment

Produce and deploy cost-effective IP-SANs by leveraging motherboards and other hardware pre-tested and qualified by Wasabi Systems to assure maximum compatibility and performance. Take advantage of all the performance improvements and cost reductions offered by assembling systems using commodity hardware components.

### An Array of Choices

Storage Builder for IP-SAN supports SAS and SATA RAID controllers from AMCC 3ware, LSI Logic, Areca and Intel® supporting RAID levels 0, 10, 10, 5, 50, and 6. RAID 6 protects against double-disk failures and provides an extra layer of data protection. For even more flexibility and economy Storage Builder for IP-SAN offers WasabiRAID®, a powerful RAID engine that leverages the speed of modern processors to deliver maximum performance while protecting

critical data. WasabiRAID supports RAID Levels 0, 1, 10, 5, 50, and spanning. Nested RAID levels can be created by incorporating logical disks created with a RAID HBA; for example, mirror two RAID controllers for fault tolerance at the controller level. Features such as hot spare, hot swap, and background rebuilds maximize system uptime and minimize windows of vulnerability in the event of a hard disk failure.

### Time Saver

Wasabi Storage Builder saves you time and money. While other IP-SAN solutions require the purchase and installation of Windows® or Linux, Wasabi Storage Builder delivers everything you need in a self-contained, bootable Flash-based device using Wasabi Flashware technology. It's a tightly-integrated set of software delivers powerful, cost-effective iSCSI storage.

IT'S EASY TO BUILD AN IP-SAN STORAGE SYSTEM USING WASABI STORAGE BUILDER. ASSEMBLE A SYSTEM USING OFF-THE-SHELF HARD DRIVES, MOTHERBOARD, AND RAID CONTROLLER. WASABI STORAGE BUILDER IS DELIVERED ON A DISK ON MODULE (DOM) DEVICE THAT PLUGS INTO THE MOTHERBOARD'S IDE OR USB PORT. INSTALL THE WASABI FLASHWARE DOM AND CONFIGURE WITH THE INTUITIVE MANAGEMENT GUI.

## INTUITIVE MANAGEMENT INTERFACE

Storage Builder's user-friendly Management GUI handles every component of the IP-SAN target. Password-protected and remotely accessible, the web-based interface assigns and manages network settings, iSCSI parameters, and volumes. 3ware, Intel, and LSI Logic RAID controller configuration is also integrated, eliminating the need to use a separate utility for RAID management. E-mail and SNMP alerts provide immediate notification of logical disk errors or if hard disk S.M.A.R.T. thresholds are exceeded so that problems can quickly be corrected. Industry-standard SES support enables monitoring of chassis temperature, power supply and drive status, and automatically adjusts fan speed to maintain chassis temperatures within specifications. Context-sensitive help and language localization further enhance this powerful tool.



Features	Product Specifications
Supported Hardware	CPUs: AMD Opteron, AMD Athlon, Intel® Xeon®, Intel® Pentium® 4 RAID Controllers: 3ware 9550SX, 9590SE, and 9650SX; LSI MegaRAID SATA 300-8X/300-8XLP/300-4XLP* Intel® SRCS28X Disk Controllers: Intel ICH5 & 6300ESB, Marvell 88SX60xx & /88SX50xx, nVidia nForce4 Gigabit ethernet adapters and chips: Intel, Broadcom, and others Hard Disk Drive Types: SATA, SATA II
iSCSI Support	Support Multiple Connections per Session (MC/s)CHAP (one-way and mutual) LUN Masking Error Recovery Levels (ERL) 0, 1, and 2 Header and Data Digest iSNS and SLP Tested with Microsoft, linux-iscsi, core-iscsi, open-iscsi, VMware ESX 3.0, Netware, and SUN Solaris software initiators
Networking	IPv4 and IPv6 TCP Checksum and Segmentation Offload Jumbo Frames Active link indication Network Time Protocol (NTP)
Volume Management	Supports volumes and virtual disks of up to 18 exabytes (18 EB) Spanning or RAID across multiple disk arrays Up to 64 virtual disks (LUNs)
Storage Management	Management Browser-based Configuration / Monitoring Utility E-mail Notification of logical disk and S.M.A.R.T. failures** Command line interface Audible notification of logical disk failures via PC speaker** Telnet support for accessing the CLI
WasabiRAID	Levels 0, 1, 10, 5, 50, JBOD, and Span. Supports individual JBOD hard disks or RAID HBA Logical Disks as RAID members.