

# HA Cluster-In-A-Box

## Enterprise-Class Clustering, Commodity Based Cost

The SBB is optimized for mission-critical, enterprise-level storage applications, and features a fully redundant, fault-tolerant storage server system. It is combined with NexentaStor™ running in a highly available clustered configuration to create an enterprise-class, high performance, “Cluster-in-a Box” solution.

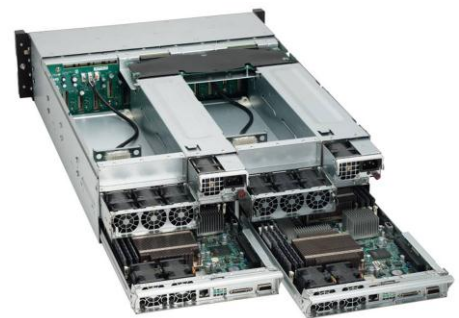
### Applications

- Primary & Tiered Storage
- Application Servers
- Data Protection
- Streaming Media
- Virtualization and Cloud

### An ideal solution for virtualization=

Hybrid storage pooling (native SSD), hot data optimization & management, deduplication, snap shots, replication, compression

PLUS - NexentaStor VM Data Center-point-and-click management of your entire virtualized VMWare, Citrix Xen and Microsoft Hyper-V environments



### NexentaStor Unique Features

- In-line deduplicator
- Unlimited snapshots and clones
- Copy-on-write snapshots
- Block and file based replication
- Asynchronous and synchronous replication
- Unlimited file size
- End to end data integrity
- Thin provisioning
- Hybrid storage pools via automated use of SSDs
- Virtualization management
- Write once, read many
- Index-based search for snapshot volumes

### Super Micro Key Features

- 3U Mission Critical Storage Server
- Dual Head Nodes with Shared Storage
- Up to 16x 3.5" Hard Drives (2TB Drives Supported)
- High Performance 6Gb/s SAS 2.0 Controllers
- Robust Data Availability with Shared Controllers
- Dual 1Gbps and Dual Intel 10GbE Connections Available
- External SAS2 Connection for Cascading JBOD's

## Specifications

### Nexenta NexentaStor and OpenStorage

A shift is underway in the enterprise data storage market. Systems consisting of proprietary hardware and software are moving to Open Storage software running on industry standard hardware. The foundation of enterprise class Open Storage approaches, including NexentaStor, is the ZFS file system that has been deployed by well over 1,000,000 open source and commercial users.

### NexentaStor – Enterprise Power with Open Source Flexibility and Cost

NexentaStor adds to the Open Source ZFS foundation a breadth of data management features, including unlimited snapshots, block level mirroring, integrated search, and industry leading software for the management of storage for virtualized environments. With NexentaStor, customers can both save 70-80% over proprietary solutions and enjoy superior functionality and flexibility as well as the support of an open source community that collectively possesses far greater resources than any single vendor.

### Supermicro SBB

The SuperServer 6036ST-6LR is a high-end Super Storage Bridge Bay (SBB) system comprised of two main subsystems: the SC937 chassis and two X8DTS-F dual processor serverboards. The X8DTS-F is a dual processor serverboard based on the Intel® 5520 chipset (5520/IOH-36D + ICH10). Below are the main features of the serverboard and chassis

#### Serverboard Features

**Processors:** supports single or dual Intel® Xeon 5500/5600 Series processors in LGA1366 type sockets. Two X8DTS-F boards are included in the storage system

**Memory:** each X8DTS-F has six DIMM slots that can support up to 48 GB of ECC registered DDR3-1333/1066/800 or up to 24 GB of ECC/non-ECC unbuffered DDR3- 1333/1066/800 SDRAM.

**SAS:** SAS 2.0 support with a x36 expander is provided with an LSI 2008 SAS controller option on a mezzanine card (p/n AOM-SAS2-L8). A total of 16 SAS hot-swap drives are supported.

**SATA:** Special add-on cards installed in the drive carriers provide support for SATA drives. Each carrier must have one AOC-LSISS9252 card installed to support a SATA drive.

**PCI Expansion Slots:** can support two PCI-E x4 and one PCI-E x8 add-on cards with the use of a RSC-R2UT-2E4E8R riser card (included).

**Rear Chassis Ports :** the rear of the chassis includes one SAS port, two 1 GB Ethernet ports and a KVM connector (includes USB, VGA and COM ports) for each node (serverboard).

**Graphics Controller:** the X8DTS-F features an integrated Matrox G200eW video controller. The G200eW is a 2D/3D/video accelerator chip with a 128-bit core.

#### Server Chassis Features

**System Power:** Gold Level 1200W power supply composed of two separate power modules. This power redundancy feature allows you to replace a failed power module without shutting down the system.

**SAS/SATA Subsystem:** supports up to 16 SAS 2.0 or SATA drives. These drives are hot-swappable units and are connected to a midplane that provides power and control.

**Note:** The operating system you use must have RAID support to enable the hotswap capability of the SAS/SATA drives.

**Front Control Panel:** Two control panels are included on each end of the SuperServer 6036ST-6LR to provide you with system monitoring and control. LEDs indicate system power, network (NIC) activity, system overheat and power supply failure. Each set of LEDs are associated with the node/serverboard on the same side of the chassis. A single power button is located on the right side control panel. When pressed, both nodes will power on or off.

**Cooling System:** The SC937 chassis has six fans: three at the front and another three at the rear (consisting of two sets of three 4-cm counter-rotating fans).



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#### About Nexenta

Founded in 2005 and privately held, Nexenta Systems, Inc., has developed NexentaStor™, the leading OpenStorage enterprise class storage solution and sponsors NexentaCore, an operating system that combines the high performance and reliability of OpenSolaris with the ease of use and breadth of applications of Linux. Both solutions leverage the revolutionary file system ZFS.