

All the features and performance of true Storage-over-IP (SoIP)



Z-Box™ Storage Solutions Overview

Z-Series Storage Solutions – Z-Box

The Hammer Z-Box is designed for small business and high-end users considering entry-level NAS solutions. Z-Box delivers the price and simplicity of a NAS with the performance, scalability and features of an enterprise-grade SAN.

Target Customer

- “Pro-sumers” and small business’ with 5-25 seats using Windows, Linux* or Mac** OS
- Increasing data and fault tolerance requirements but highly sensitive to price
- Individuals or groups without specialized IT resources

Likely Competitor Products

- Intel Sanmina
- Buffalo Terastation
- Anthology Yellow Machine

Value Proposition

- Easy to use and manage with local and remote management suite - No specialized IT resources
- Up to 3 TB*** of capacity in a single unit that easily scales as an organization grows
- Data throughput of 80 MB/sec is ideal for home audio/video or business applications
- Protect critical data with integrated native RAID rather than external hardware controllers
- Highest value for performance profile: (unmatched scalability/performance, same price)

Unique Features

- Aggregates for performance of 10+ GB/sec across multiple enclosures
- Supports file/volume sharing and block-level applications on single device
- Build volumes and RAID constructs across multiple physical enclosures
- Z-SAN “non-disruptive” architecture facilitates changes without system downtime
 - o Additional units can be added at will
 - o Volumes can be increased/decreased at will
 - o RAID structures can be modified at will

Storage Architecture Application Guide

End-User Application	Hammer Z-SAN	NAS Storage	SAN Storage
Email Servers	✓		✓
Databases and ERP	✓		✓
Web and content servers	✓	✓	
Networked storage	✓	✓	
Imaging & multimedia	✓	✓	✓
Archives, disk backups	✓	✓	✓

Only Z-Box is optimized for all types of applications providing the most flexible solution in the industry

*Linux will be available beginning Q4 '06

**Mac OS X will be available beginning Q3 '06

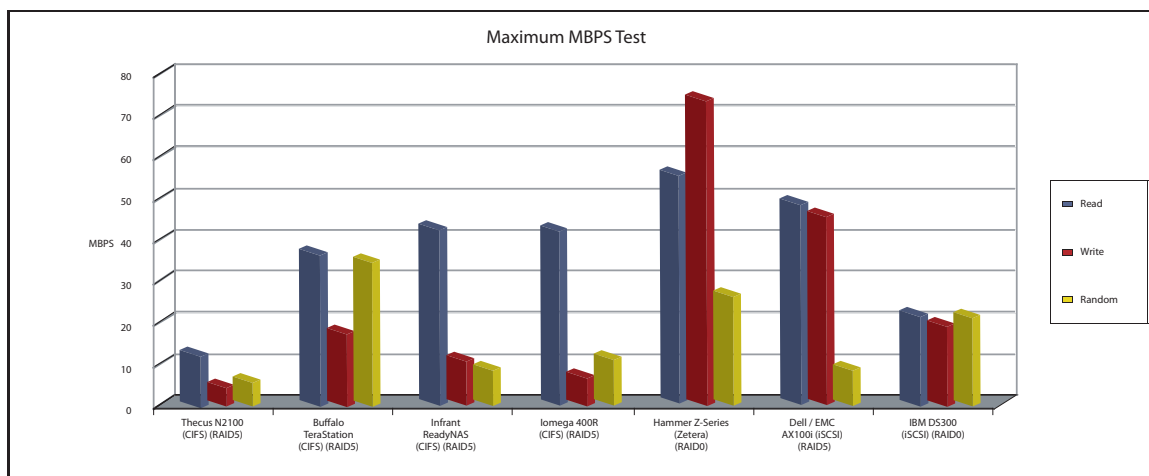
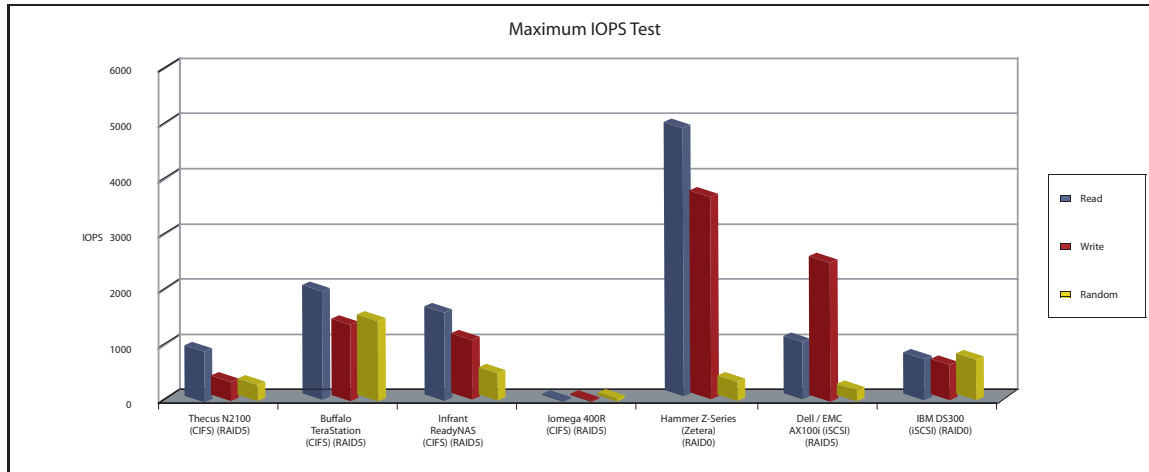
***Max HDD size currently 750 GB.

Use of larger HDDs will increase enclosure capacity

Z-Box™ HZD4B Desktop

Toigo Partners International performed independent product testing of the Hammer Z-Series in order to validate performance claims. The results demonstrate that Z-Box offers the best performance at the same price point as the rest of the market.

Toigo Partners International Performance Results



Desktop Models

Product Specifications	Hammer Z-Box	Infrant ReadyNAS	Buffalo Terastation Pro	Anthology Yellow Machine
Suggested List Price (1 Terabyte)	\$1,299	\$999	\$999	\$1,299
Storage Architecture	SAN	NAS	NAS	NAS
File Storage Type	File & Block	File Only	File Only	File Only
Unit Storage Capacity	3 Terabytes	2 Terabytes	1.6 Terabytes	1.6 Terabytes
Total System Capacity	Up to 128 petabytes	2 Terabytes – NAS doesn't scale	2 Terabytes – NAS doesn't scale	2 Terabytes – NAS doesn't scale
Redundant/Hot Swap Drives	Yes	No	No	No
Single Unit Performance	~80 Mbytes/sec	~14 Mbytes/sec	~15 Mbytes/sec	~22 Mbytes/sec
Max System Performance	Limited only by the network	~14 Mbytes/sec	~15 Mbytes/sec	~22 Mbytes/sec
Configuration changes without downtime	Yes	No	No	No