



**Comprehensive
iSCSI Data storage
Enterprise solution**

The oXigenn iSCSI Data storage solution increases the capabilities and performance of storage data transmission in the SAN market. It offers the best combination of data throughput, security, compatibility, management, costs and

Benefits

High Data Throughput

Optimized Storage Software;
Adaptive Load Balancing (ALB),
10 Gb Ethernet Support

High Security

Clustering Support, IPsec,
Snapshot with Scheduling,
OS on Secured IDE flash,
minimize Downtime, CHAP
Authentication and Network
UPS Support.

Easy Management

Web-based, Password-
Protected User Interface,
Console Tool and an integrated
Volume Manager.



Rackstor 1000



Rackstor 2000



Rackstor 3000

	Rackstor 1000	Rackstor 2000	Rackstor 3000
CPU	3.0 GHz	3.0 GHz	Xeon 3.4 GHz
Memory	1GB	1GB	2GB
Hot Swap	4xSATA	8xSATA	16xSATA
Network Interface	2 x 10/100/1000 Mbps		
Dimension (WxDxH -inch)	19.0 x 27.0 x 2.0	19.0 x 27.0 x 3.5	19.0 x 27.0 x 5.25
Software Specification.			
Interface	Web-based Graphical		
Network Clients Support	Microsoft Windows, Linux, Unix, Mac OS X, 10.4		
Snapshot	Multiple Snapshot with Scheduling Function		
	Multiple Logical Volume & Groups		
	Volume Replication		
	Online Logical Volume Expansion		
Software RAID	RAID 0, 1, 5, 6		



oXigenn Rackstor use Open-E iSCSI Enterprise for Data Storage Management

oXigenn : Rackstor Storage Solution

Web-based Graphical User Interface	✓
Remote Access for Console	✓
Secured Administration Access	✓
Console Tool	✓
Tuning Tools	✓
E-mail Notification	✓
Multiple Management Level	✓
Update via web	✓
Help with search and index	✓
Extended save & restore settings	✓
Motherboard monitor	✓
Standard Network Gateway Support	✓
DHCP Client	✓
Log Function	✓
Microsoft Windows, Linux, Unix, Mac OS X, 10.4	✓
Software RAID 0, 1, 5, 6	✓
Software RAID degraded mode	✓
E-mail notification for S/W RAID	✓
SNMP v3, v2	✓
S.M.A.R.T.	✓
E-mail notification for S.M.A.R.T.	✓
Support for SWAP	✓
Multiple H/W RAID Controller Support	✓
Multiple FibreChannel HBA Support	✓
IDE & SATA Interface Support	✓
Multiple Network Interface Card Support	✓
Adaptive Load Balancing & Adapter Fault Tolerance	✓
10 Gb Ethernet Support (Option)	✓
TCP/IP Offload Engine Support	✓
Jumbo Frames Support	✓
MPIO Support	✓
IP-sec	✓
Proxy settings	✓
Read Only LUN option	✓
IP Address Restrictions for a Target	✓
Connections Status	✓
Sessions Management	✓
CHAP for Target	✓
Multiple CHAP for Target	✓
CHAP User Management	✓
Snapshot	✓
Multiple Snapshot with Scheduling Function	✓
Multiple Logical Volume & Groups	✓
Volume Replication	✓
Online Logical Volume Expansion	✓
Support for Online Capacity Expansion	✓
UPS Support	✓
Network UPS Support	✓

Standard Gateway Support

OXigenn iSCSI Enterprise can be used in business environments with structured networks, and it allows for remote management and optional data access via Intranet or Internet.

DHCP Server Support

The Dynamic Host Configuration Protocol (DHCP) is a communications protocol allowing network administrators to centrally manage and automate the process of assigning IP addresses in a network.

Secured Administration Access

OXigenn iSCSI Enterprise provides Secured Administration Access, requiring administrators to use SSL to access and configure the iSCSI software. OXigenn iSCSI Enterprise also allows users to assign different administrator rights to multiple administrators.

Multiple Network Interface Card (NIC)

OXigenn iSCSI Enterprise use of two or more network cards to access separate sub-networks. It also allows users to select the services to be enabled on a specified NIC.

Adaptive Load Balancing

Adaptive load balancing enhances performance by automatically routing data through several alternative paths or storage adapters as application needs change.

Adapter Fault Tolerance

Adapter Fault Tolerance assures greater reliability by providing that a secondary storage adapter automatically takes over if the primary storage adapter fails.

Multi-Snapshot with the scheduling function

Multi-Snapshot with the scheduling function, available in OXigenn iSCSI Enterprise, allows users to take a snapshot at a specified time (e.g., automatically every hour). If a user accidentally deletes or incorrectly modifies a file, he can still recover the data from a previous snapshot image.

Multiple Logical Volume Groups

Logical volume groups allow storage administrators to create logical storage pools that span multiple physical disk drives. With its support of multiple logical volume groups, OXigenn iSCSI Enterprise makes it easier to meet the changing needs of users and applications while making the maximum use of available physical disk space.

Read Only LUN option

This function lets the user to set the LUN (Logical Unit Number) as a read-only device.

Volume Replication

With OXigenn software your data will be safe thanks to volume replication. It creates exact copy of source volume in real time, it means that when on one volume data is lost then data on second volume still exists.

Online Logical Volume Expansion

Online logical volume expansion allows administrators to change the size of storage volumes as needed without having to restart the application, recreate the volume, and back up and restore the data to the volume.

Multilevel Management

OXIGENN iSCSI' multilevel management capabilities allow the assignment of different levels of management rights to different storage managers. This allows, for example, some users or managers to monitor disk utilization for planning purposes without having the right to actually change or add actual storage volumes.

Network Client Support

- Microsoft Windows
- Linux
- UNIX
- Novell Netware 6.5
- Apple OS X

Console Tools

The OXigenn iSCSI Enterprise management console allows managers to monitor the status of the network, drivers and hardware, as well as to view information about memory usage. They can also control the Ping function, time settings, and DNS and DHCP configuration. Through the console, administrators can also change the language in which they run OXigenn iSCSI.

Tuning Tools

This option is for advanced administrators. Tuning tools allows increase OXigenn server performance. Using this tool you have possibility of enhancing disk, network, services settings.

Hardware Monitoring

The OXigenn software allows you to monitor hardware status using your motherboard's sensors. This information can be: temperatures, voltages and/or fan speeds.

UPS Support

An uninterruptible power supply, which provides safe shutdown in case of power failure, can be attached to an OXigenn iSCSI Enterprise system through a standard serial port.

Network UPS

OXIGENN iSCSI Enterprise also supports the use of UPS to ensure the smooth shutdown of all OXIGENN iSCSI servers on the network in the case of a power failure. Using the SNMP interface for communication, the UPS-equipped server sends (or receives, if working in slave mode) the power failure signal and will shut down all servers in the network without the loss of data.

Email Notification

OXigenn iSCSI Enterprise can be configured to send email alerts to the system administrator in case of problems with the OXigenn iSCSI software.

Log Function

OXigenn iSCSI Enterprise allows the storage administrator to transmit error logs or system logs to OXIGENN to aid in diagnostics and troubleshooting.

Target Password Support

OXigenn iSCSI Enterprise allows set up password for targets to protect them from unauthorized access

Multiple CHAP for target

OXigenn iSCSI Enterprise allows assigning multiple CHAP users that will be granted to access to the target. CHAP user authentication is by user name and password.

CHAP User Management

Thanks to this feature you can easily manage users that will have access to the targets. You can create, edit and remove existing CHAP users.

MPIO Support

The OXigenn iSCSI Enterprise allows set multiple connections to one target increasing performance and reliability.

IP-Sec

The OXigenn iSCSI Enterprise supports the Secure Internet Protocol (IPsec). This protocol has been developed to secure data transmitted across a network, preventing confidential and personal information being intercepted or modified.