



iSCSI

Virtual Storage for Virtual Servers - Volume Manager based Virtualization consolidates storage resources and simplifies IT operations. The system is fully certified by VMware.

Bundled Software at No Extra Charge - includes full suite of data management and data protection software with unlimited capacity license through a simple user interface.

Simple DR for Everyone - disaster recovery with a pair of iQ2850 replicating to each other locally or remotely. It is simple, cost effective and affordable for every business.

Video Surveillance Storage - Cost effective and high performance system supports direct connection to digital camera via iSCSI interface.

iQstor
Virtualization Done Right

iQ2850 iSCSI Storage System

Enterprise-Level Features, Affordable Price, Simple Installation and Management

The iQ2850 is a virtualized iSCSI SAN that delivers enterprise class data protection. It is designed to provide the storage foundation for today's virtualized data center. Through its rich software features, the iQ2850 delivers integrated data protection, virtualized server integration, exceptional performance, reduced storage management time, as well as, data center scalability and availability for business applications.

Enterprise Data Services

The iQ2850 integrates enterprise class data services and makes it affordable for organizations of all sizes. Powerful software helps organization to optimize capacity utilization, automate data protection and speed data recovery.

Data Protection – Snapshots, Remote Replication, Volume Mirrors, Multi-path I/O, Snapshot Scheduler, Snapshot Restore, Consistent Volume Group

Storage Virtualization – Virtual Volumes, Storage Pools, Automated Volume Expansion, Online Data Movement, Storage Tiering

Management – SAN Manager, System Manager, Dynamic Capacity Provisioning, Wizard Based Setup, SAN Capacity Usage Reports, Performance Monitoring, Enclosure Monitoring, Roles Based Administration, Automated Drive Power Management

Application Integration – Snapshot Application Agents for Exchange, SQL Server, Windows File Systems, Oracle, Microsoft VSS Providers

Modular Design with Enterprise Reliability

The iQ2850 virtualized storage array delivers a scalable solution for a variety of business applications. The modular expansion approach enables IT administrators to quickly and cost-effectively add only the storage they need, when they need it to prevent over-provisioning.

Designed to meet the rigors of data center operations, the iQ2850 delivers enterprise reliability and availability through fully redundant, hot swappable components such as storage controllers, power supplies, cooling modules and disk drives with hot spares. Active-active controller technology ensures continuous data availability even in the event of controller or path failures.

Tiered Storage Support

The iQ2850 helps organizations to save storage costs by natively supporting tiered-storage. Support for both high performance FC drives and cost effective SATA drives, allows applications and data to be matched to the appropriate tier of storage thus maximizing the investment on storage infrastructure.

Ease of Use

The iQ2850 virtualized storage array is designed for rapid installation, simple management and seamless capacity expansion on demand. The virtualized storage arrays are typically installed, configured and serving hosts and applications in less than one hour. A simple management GUI provides a single interface to manage the entire solution. The centralized management tool constantly performs system health checks to ensure all components are fully functional.

iQ2850 iSCSI Storage System	
Storage Controller	Single or dual controllers per storage system
Host Interface	Four iSCSI Gigabit Ethernet ports per storage controller, eight ports per system with hardware TCP/IP Offload Engine (TOE)
Expansion Interface	Four 4Gb/s Fibre Channel SFP ports
Parity Accelerator	Four embedded hardware accelerators
Cache Memory	2GB standard, 8GB maximum
Cache Back Up	UPS cache vaulting and/or battery backup (up to 72 hours)
Enclosure Management	Out-of-band through 10/100Mb/s Ethernet port
Notification Methods	SNMP traps, email, SMS, syslog
Security	CHAP authentication Access control for iSCSI
Operating System Support	Windows, Linux, VMware
Management Interfaces	SAN Manager network configuration and monitoring System Manager enclosure configuration and monitoring, http SNMP Serial console, telnet
Standard Features	System Manager (SYSM) Volume Manager Virtualization (VMV) RAID levels 0, 1, 10, 3, 5, 50, 6 On-line RAID expansion Multiple RAID sets Up to 504 LUNs Tagged Command Queuing up to 4096 Hot swap disk drives Global hot spare disks Automatic drive failure detection and rebuild Automatic reallocation of bad sectors Enterprise-level cache vaulting and active cache scrubbing
Optional	Managed Snapshot Services (MSS) Volume Copy Services (VCS) Remote Replication Asynchronous (RRA) Database Application Agents (DAA) SAN Manager (SANM) Dynamic Capacity Provisioning (DCP) Multipath Agent with iSCSI port bonding (MPA)
Drive Interface	
Connectivity	Four FC4 switched loops
Drive Type	300/600GB 15K rpm FC4 500/1TB/2TB 7200 rpm SATA II
Maximum Capacity per Enclosure	9TB with 15 x 600GB FC4 drives or 30TB with 15 x 2TB SATA II drives
Maximum Capacity per Subsystem	144TB with 240 x 600GB FC4 drives or 480TB with 240 x 2TB SATA II drives
Power and Cooling	
AC Input	90-260 VAC, 47-63 HZ, auto-ranging, PFC
DC Output	Dual 460 Watt, hot-swap redundant
Cooling	Dual modules each with two blowers
Operating Environment	
Temperature	10°C to 40°C
Relative Humidity	20% to 80%
Certification	FCC/CISPR 22 Class A, UL/CUL, CE, CB, BSMI
Dimensions	
Rack Mount Unit	132mm x 447mm x 475mm (5.20" x 17.58" x 18.70") (H x W x D) 3U EIA high (19" rack mount)
Weight	49 kg (108 lbs) fully loaded
Support Services	
Basic	Includes 3-year product warranty with 9x5 telephone support from iQstor Professional Services engineers.
Optional	iQ-Solution Plus - 24x7 product support, 4-hour on-site response iQ-Solution - 9x5 product support, next business day on-site response iQ-Solution Basic - 24x7 annual phone support, 4-hour response time

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