

Vmirror™ 8G Product Brief



High Availability, Enterprise SAN Appliance for Xsan-compatible System

Key Features

High Availability

Clustered, dual active-active appliance design combines with Apple Xsan or other equivalent SAN file systems to create enterprise-grade storage solutions for business-critical and video applications.

Instantaneous, hardware-based failover and failback of storage system access complements Xsan operation and provides uninterrupted video streaming.

Continuous Data Protection

Embedded hardware mirroring protects data continuously with no overhead on hosts or storage.

Optional point-in-time “frozen” copies of volumes provides immediate, disk-based restoration in the event of failure.

Simple, Open, and Scalable

Universal Fibre Channel compatibility, works with any mix of OS drivers, switches, and Xsan-certified storage systems.

Appliance-based design eliminates need for installation of host software or proprietary device drivers. Modular scalability allows multi-node clustering of mirroring engines.

Per Vmirror 8G supports up to 16 Xsan compatible RAID's and 96 workstations.

Easy to Manage

With intuitive GUI on iPad to achieve simple, centralized management

Built for 8 Gbit per-second performance, the Vmirror 8G appliance is the newest addition to Vicom's family of high-availability appliances and solutions for enterprise video systems running on the SAN environment. Vmirror appliances add continuous, high-availability access and data protection to large-scale Video SAN storage infrastructures — key requirements for digital video post-production, broadcast, and creative workgroup applications.

Vmirror is designed for easy operation with the Apple Xsan storage architecture. Mirroring and failover is managed automatically by Vmirror and is fully transparent to host system operations. To connected hosts, Vmirror-protected Xsan-compatible RAID storage appears as an unbreakable volume, impervious to component outages, that also supports “hot” SAN/storage maintenance without requiring application downtime. No additional host software or drivers are required, which reduces administration and eliminates CPU overhead.

Guaranteed data access

The Vmirror 8G appliance makes it easy to build a high-availability, enterprise-grade storage solution using Xsan-compatible RAID systems. Vmirror installs easily with Xsan-compatible RAID units and switches and, optionally, with Xsan software, and others, to create a high-performance storage system with instantaneous failover and no single point of failure.

Embedded hardware mirroring protects data continuously with no CPU overhead, while clustered SAN engine operation creates and monitors redundant data paths between video workstation and SAN storage. If a component outage occurs, access is instantly switched to alternate storage, ensuring applications continue to run without interruption. Depending on specific data protection and application needs, Vmirror 8G can be used to mirror entire user data, mission-critical data sets, or metadata only – when used with Apple Xsan.

Twice the Read performance – and more

Vmirror 8G offers the ability to optimize Read from two identical mirrored members, which presents a large performance advantage in multi-client Xsan environment. High-speed mirroring, combined with up to eight high-speed 8-Gbit Fibre Channel ports per appliance, provides the connectivity, bandwidth, and uninterrupted streaming needed to support video operations in large workgroups and commercial environments. Each appliance supports up to 96 workstations and 16 Xsan-compatible RAID systems.

For video applications such as rich media database that require both continuous data protection and quick volume restoration, Vmirror 8G offers split-mirror to create point-in-time copy of volumes and provides immediate access to those “frozen” volumes for tape archiving, or for disk-to-disk rapid restoration.

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Vmirror Specifications

Models	SM8x4-1, Single-engine 1U appliance with 4x 8Gb/s FC ports SM8x4-2, Dual-engine 1U appliance with 8x 8Gb/s FC ports
Platform OS Support	Mac OS X, Windows, Linux
SAN File System Support	Xsan, StorNext, metaSAN
Storage System Support	Xsan-compatible FC RAID, including Apple Xserve RAID, ActiveRAID, and Promise VTrak (Other storage can be certified and supported by request)
Engine Hardware	CPU: Intel IOP341 Memory: 1G DDR II
Fibre Channel Specifications	Quad 8Gb/sec Fibre Channel ports per engine module Protocol/Topology Standards: ANSI Fibre Channel (FC-PH, FC-PH-2, FC-PH-3, FC-PLDA, FC-FLA) ANSI Fibre Channel Arbitrated Loop (FC-PLDA, FC-AL, FC-AL-2) ANSI Fibre Channel Fabric (FC-FLA, FC-GS-2) Classes of Service: Class 3 Data Transfer Rate: 2, 4, or 8 Gb/sec; Port Type: N(L)_Port
Serial Port Connectivity	Protocol: Serial Transmission Speed: 115200 baud Connector DB-9
Ethernet Port Connectivity	Dual 1G/b/sec Ethernet ports Protocol: Transmission Control Protocol – Internet Protocol (TCP/IP) Speed: 10/100/1000 Based-T Connector: RJ-45
Operating Environment	Operating Voltage 100 to 240 VAC; 50 to 60 Hz 2A at 110 - 120 VAC and 1A at 220 – 240 VAC
Mechanical	Weight SM8x4-1: 8.9 pounds (4.04 Kg) SM8x4-2: 12.8 pounds (5.81 Kg) Dimensions 1U rack-optimized 1.75 inches (4.445 cm) high 17.7 inches (44.96 cm) wide 13.25 inches (33.66 cm) deep Integrated power supply with dual fan per engine module Front-to-back air pattern
Maximum Throughput	SM8x4-1 – 2000 MB/sec, 50K IO/sec SM8x4-2 – 4000 MB/sec, 100K IO/sec
Safety Standards	UL 60950, IEC 60950, EN 60950
Emission Standards	FCC Part 15, Class A ICES – 003 Class A VCCI Class A EN 55022 Class A

Vicom Systems

Vicom Systems is a privately held company in Santa Clara, California. Vicom specializes in the delivery of transparent, wire speed data services for systems and storage. Vicom delivers on the long-standing promise of SANs: seamless consolidation, any-to-any connection, simplified management, and high availability. Vicom products and services have been selected by OEMs including IBM, Sun Microsystems, and Hewlett-Packard. Enterprise and video customers include Deutsche Bank, Bloomberg, Caterpillar Tractor, Turner Studios, NHK, and Korea Broadcasting.