



The Xsigo Product Family

The Xsigo I/O Director

The Xsigo I/O Director consolidates server I/O by replacing a server's multiple Ethernet and Fibre Channel interfaces with a single high-speed, low-latency 10-20 Gb/s link. Multiple virtual Ethernet interfaces (vNICs) and virtual Fibre Channel interfaces (vHBAs) communicate over this link, and virtual interfaces are established using Xsigo's virtualization hardware and Xsigo's host drivers. Xsigo solution elements include:

High-Speed Fabric: Non-blocking fabric incorporates 24 ports for direct connection to servers. Scale to hundreds of servers by integrating the Xsigo IS24 Expansion Switch.

System Controller: The Xsigo system controller and Xsigo operating system control virtual resources across all attached servers. To ensure performance and reliability, the system controller lies outside the data path.

I/O Modules: For connection to storage and networks, add up to 15 hot-swappable modules. Choose from Ethernet (1G or 10G), or Fibre Channel. Each module incorporates custom Xsigo silicon designed specifically to optimize server I/O.

Management Software: The Xsigo I/O Director is easily managed through a CLI or its intuitive GUI. Connectivity can be deployed through a quick drag-and-drop operation. The I/O Director also integrates with existing management frameworks through an open API.

Host Channel Adapter

A single host channel adapter in each server consolidates storage and network connectivity. Each HCA can deploy up to 32 virtual HBAs and 32 virtual NICs within the server. Other than a standard driver, no agents or management software are installed on the server.

Expansion Switch

The Xsigo IS24 Expansion Switch provides 24 ports for additional server connectivity fan out. Multiple Expansion Switches may be employed to provide consolidated I/O for hundreds of servers.



10 x 1Gb Ethernet module



1 x 10Gb Ethernet module



2 x 4Gb Fibre Channel



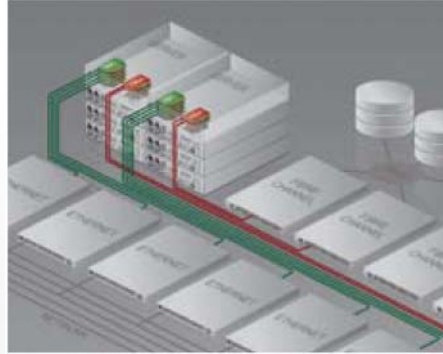
IS24 Expansion Switch

Xsigo: The Better Way to Connect Servers to Networks and Storage

KEY BENEFITS:

- Transparently re-purpose server and I/O resources
- Seamlessly scale I/O in blade systems and rack mount servers
- Eliminate 70% of the I/O infrastructure
- Save 50% on capital cost vs traditional server I/O
- Reduce I/O-related power consumption by 15-30%
- Guarantee I/O bandwidth, via QoS controls, to specific applications or virtual machines
- Enhanced application failover and migration -- move applications without remapping networks and storage
- Deliver 10-20 Gb/s bandwidth to each server
- Modular architecture for seamless, future-proof expandability
- Integrates with existing LAN and SAN components

Transform your IT infrastructure with the Xsigo I/O Director, a hardware and software solution that streamlines server I/O management. Instead of deploying multiple I/O cards and cables to every server, Xsigo lets you connect servers with a single cable and then create virtual I/O resources instantaneously. The result is 100x faster server management, 70% fewer cables and cards, and up to 50% less capital cost.



Without Xsigo



With Xsigo

I/O Virtualization Delivers Flexibility, Cost Savings

The Xsigo I/O Director employs virtualization to let you flexibly connect servers to networks and storage. Xsigo eliminates the physical storage and networking cards found in every server and replaces them with virtual NICs and virtual HBAs that can be deployed on the fly. Applications and operating systems see these virtual resources exactly as they would see their physical counterparts. The result is an I/O architecture that is much easier to manage, far more cost-effective, and fully open.

High Performance

Put an end to performance bottlenecks. With Xsigo, applications get the exact connectivity they need when they need it, with the added benefits of guaranteed I/O performance and isolation for security—even when multiple applications coexist on the same physical server. Intelligent QoS (quality of service) features guarantee specific bandwidth to critical applications.

Open Systems for Complete Flexibility

Xsigo is committed to open standards, so you can always use the servers, networking, and storage that you have today. And future purchases can be from any standards-based vendor. Most alternative solutions employ proprietary gear, which means you cannot re-use what you have. Worse, you're locked into a single vendor's gear for years to come. Xsigo keeps your options open.