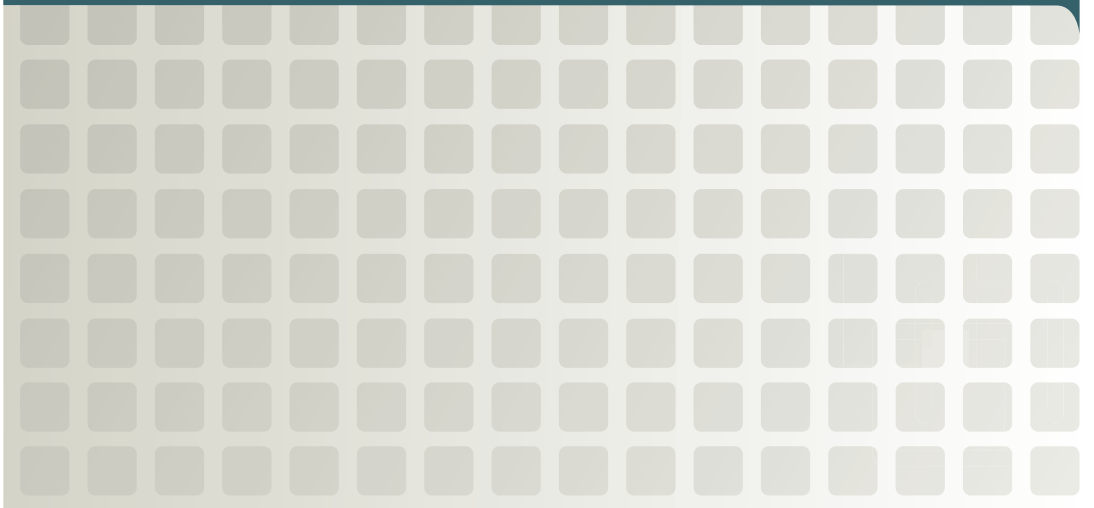
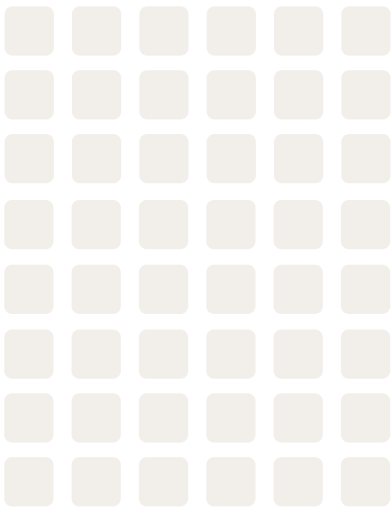




TOPSPIN SOLUTIONS FOR  
HIGH PERFORMANCE COMPUTING



## TOPSPIN SOLUTIONS FOR HIGH PERFORMANCE COMPUTING

InfiniBand is the ideal HPC interconnect and Topspin is the industry's leading vendor of InfiniBand clustering solutions. Topspin's advantages include:

- OEM supplier to Dell, IBM, HP, NEC, RLX, Sun
- Broadest HPC product portfolio
- Proven scalability in production
- Industry leading quality

**OEM Supplier to Dell, IBM, NEC, RLX, Sun.** These vendors have chosen Topspin for its technical excellence in HPC applications and for its commitment to customer support. No other InfiniBand solutions provider has this level of support from major server manufacturers. Topspin's OEM backing benefits users by enabling HPC bundled solutions from users' server vendors of choice and by affirming a long term commitment to InfiniBand quality and service from established distribution channels.

**Topspin's broad HPC product portfolio** enables dramatic cost reductions and I/O performance scaling. Topspin offers Ethernet and Fibre Channel gateways that connect InfiniBand servers to the traditional LAN and SAN worlds. Rather than deploying many separate Ethernet switches for cluster management, Topspin allows IP-based management traffic to flow across InfiniBand and then converts it to Ethernet at centrally located gateways. Similarly, the Fibre Channel gateway removes the need for storage-intensive HPC applications to deploy local HBAs in each node. I/O consolidation reduces capital expenditures and ongoing administration costs. At the same time, the enhancements deliver high performance IP and storage access that scales upwards with application demands.

**Topspin delivers proven scalability** and makes it easy for HPC users to build clusters regardless of how large or small their needs are. Topspin's InfiniBand switches range from the low-profile single rack unit TS-120 with 24 non-blocking 10-Gbps ports, to the modular TS-270 with 96 non-blocking 10-Gbps ports. Multiple switches combine to form clusters with hundreds or thousands of nodes. Topspin offers a Host Channel Adapter (HCA) that plugs into a server's PCI-X slot and connects the server to the InfiniBand network. Between the switches and HCAs are a broad range of cables from three to 15 meters that enable users to deploy clusters with as many nodes and as many switches as desired. Topspin certifies these cables for interoperability with switches and HCAs. Topspin's management software sits atop the hardware and enables easy cluster configuration and monitoring with a comprehensive GUI.

**Topspin delivers the highest quality** to its customers. Topspin hardware supports redundancy for high availability and is built for easy serviceability to minimize repair time. Topspin's host software drivers implement the protocols and APIs that bind applications to the InfiniBand interconnect. These drivers are open sourced for the HPC community's use. This reflects Topspin's commitment to quality through open standards and peer review. Major HPC users and vendors recognize Topspin's high quality implementation of the standard protocols that enable applications to exploit InfiniBand's capabilities.