

# Top 10 Reasons to Choose a Rockport Switchless Network

## 1 Unlocks HPC/AI Compute and Storage

A Switchless Network outperforms traditional networks when it comes to compute and storage resource utilization. A fully distributed switching fabric, it eliminates network bottlenecks and ensures resources don't sit idle.

## 2 Faster Results, Predictably

Delivering advanced latency and congestion control, a Switchless Network provides faster, more predictable workload completion times. Removing the switch enables better performance and effective bandwidth capacity so you can deliver accelerated results with greater certainty.

## 3 One Network, Workload Agnostic

Don't run separate networks for high performance workloads and storage traffic. A Switchless Network is workload agnostic, whether it's HPC, AI/ML/DL, or HPDA. Use any MPI library, parallel programming model, operating system driver or software stack.

## 4 High Performance Without the Headaches

Intelligent and autonomous, the Switchless Network is self-discovering, self-configuring and self-healing. Install the standard PCIe networking card in the server, plug into the passive optical interconnect, boot up the network management software and that's it - a supercomputer network fabric up and running in minutes.

## 5 Pre-wired and Modular for Simplified Scaling

With a Switchless Network, you get all the sophistication and scaling of supercomputing without the hassles. Topologies are pre-configured and cabling pre-wired, so you can easily add nodes as your needs change.

## 6 Intuitive and Insightful Telemetry

Your network shouldn't be a black box. With a Switchless Network you get complete oversight so you can see inside your network to monitor the performance of individual nodes, track end-to-end traffic flows, manage system-wide settings, and optimize advanced features system-wide.

## 7 Redundant, Resilient and Secure by Design

Stop designing and budgeting around the shortfalls of legacy networks. A Switchless Network is inherently redundant and resilient, delivering maximum uptime and economic efficiencies. No switches mean fewer attack surfaces, making it fundamentally more secure.

## 8 Reduces Overhead and Operational Burden

A Switchless Network is significantly less expensive to operate over its lifetime. Lower power and cooling requirements, less space, and total network transparency make this a smart and cost-effective choice.

## 9 Inherently Green

Dematerialize and decarbonize effortlessly. With no switches and fewer cables, the overall materials required to build a Rockport Network are greatly reduced. It also consumes significantly less energy than traditional networks, making it easier to meet or exceed green mandates.

## 10 Finally, an Alternative

Designed as the fabric of the future, a Rockport Switchless Network has a fully distributed architecture and is ready for the next generation of performance-intensive computing. You now have a powerful alternative to evaluate when building your next cluster.