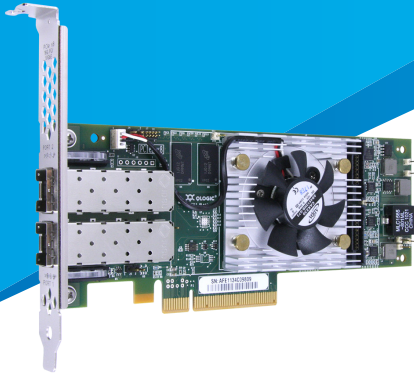


QLogic I/OFlex Technology—Any I/O, Any Network

Cavium Brings Unparalleled Flexibility and Increased Investment Protection to the Data Center



The importance of I/O performance and reliability has never been greater. Next-generation server attachment has to support heterogeneous environments, multi-protocol I/O, higher levels of virtualization, and cloud computing deployments. These requirements drive the need for high-performance I/O, flexibility of deployment, and ease of use.

NEXT-GENERATION SERVER ATTACH STRATEGY

Today's server attach strategy enables the current IT trends to support data center challenges by doing the following:

- Support the foundation on which resilient enterprise data centers are based, which include high-performance networks with the utmost in reliability, availability, and scalability
- Leverage the capabilities of new server architectures and innovation in networking that help drive convergence
- Keep pace with the evolution in virtualization, which provides flexibility to adapt to new, emerging protocols
- Support enterprise SANs, traditional LANs, and newer cloud deployments
- Provide a means to manage every element in the data center through a simplified, single-pane-of-glass view
- Ensure investment protection with backward and future compatibility

THE CHALLENGE

The pace of technology and business dynamics force IT administrators to be nimble—with their technology deployments and their budgets. The infrastructure must be expandable to match the enterprise's needs. Traditionally, an IT department might build out a new data center or expand into a co-location facility. In today's economy, the right solution has a flexible infrastructure that administrators can easily reconfigure with changing technologies for redeployment within their existing space.

What if you could use a single adapter and PCIe® slot over the lifetime of your server to connect discrete SANs, LANs, or converged networks? What if you could extend the life of your servers and I/O adapters by using them today to deliver enterprise performance and connectivity to Tier-1 Storage, and then redeploy them in the future to support tiered storage or NIC management?

This approach would eliminate rip-and-replace installations, allowing you to spend less time managing and maintaining and more time enhancing your infrastructure. It would provide the most agile server I/O connectivity solution available—with enough bandwidth to ensure reliable and consistent I/O performance for your virtual servers and applications. You could protect your investments supporting today's technology and future proof for emerging technology trends. In addition, it would allow you to migrate your infrastructure to consolidated, converged, and cloud networks—all at your own pace—and use the same hardware for 16Gb Fibre Channel or 10GbE server connectivity.

THE SOLUTION

QLogic® FlexSuite™ Adapters feature with I/OFlex™ technology from Cavium™, which is a field configurable upgrade that allows you to use the same hardware for 16Gb Fibre Channel or 10GbE server connectivity. Unlike “rip-and-replace” and “pay-as-you go” alternatives, QLogic I/OFlex technology provides you with a future-proof approach to building agile infrastructures. This method protects existing Fibre Channel investments and delivers a simplified and cost-effective path to network convergence. The QLogic FlexSuite Adapters from Cavium allow you to change the interface type, or personality, between a 16Gb Fibre Channel Adapter and a 10GbE Converged Network Adapter.

QLogic I/OFlex Technology

QLogic FlexSuite Adapters from Cavium provide you with the ability to use a single adapter through the lifetime of a server—using Fibre Channel in Tier-1 SANs today or an Ethernet-based network in the future. These solutions deliver you peace of mind knowing that you are using the most stable, reliable, and interoperable products available. QLogic adapters give you the confidence to deploy IT solutions while minimizing total cost of ownership, mitigating risk, and protecting infrastructure investments. The unique QLogic I/OFlex technology from Cavium allows you to extend the useful life of your servers, getting the most out of your IT investment dollars. This is especially valuable if you deploy both native Fibre Channel and Ethernet-based SANs.

QLogic technology provides the versatility to handle any protocol, any host, any storage, and any fabric—addressing the demands of the rapidly evolving enterprise. I/OFlex is a free, field-configurable firmware upgrade that enables IT administrators to define the personality as 16Gb Fibre Channel, 10GbE, or FCoE on a single adapter. This capability addresses the demands of rapidly evolving enterprises and provides increased agility for cloud deployments. QLogic FlexSuite Adapters reduce data center costs by converging FCoE, TCP/IP, and iSCSI traffic simultaneously on the same hardware. This convergence results in buying fewer adapters, cables, and switches. In addition, convergence offers lower power consumption, reduced cooling, and easier LAN and SAN management.

Customer Benefits

The flexibility to change personality allows you to preserve your adapter investment if you choose to migrate from Fibre Channel SAN today to an Ethernet-based SAN in the future. In the same PCIe slot, it is easy

to accommodate changing networking and storage requirements. The personality change is fast and easy to use. There is no license required and it saves administration and management time.

The investment protection offered by this approach gives you the best asset utilization while conserving PCIe slots. You can deploy high performance now for mission-critical servers and extend the life of your server deployment. It allows you to converge at your own pace.

Cavium is the industry leader, bringing high-performance I/O solutions to data center customers. The performance of the QLogic FlexSuite Adapters is best in class and provides the highest performance, unparalleled flexibility, and enhanced reliability. You can set your server attach strategy at your own pace. Cavium—the right choice to extend the lifetime of your server investments.

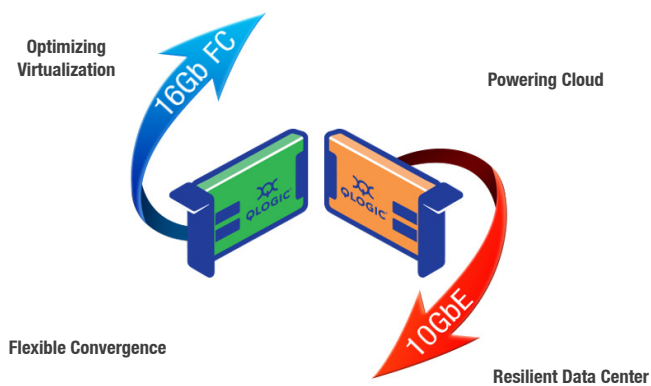


Figure 1. The Benefits of 16Gb Fibre Channel and 10GbE

ABOUT CAVIUM

Cavium, Inc. (NASDAQ: CAVM), offers a broad portfolio of infrastructure solutions for compute, security, storage, switching, connectivity and baseband processing. Cavium’s highly integrated multi-core SoC products deliver software compatible solutions across low to high performance points enabling secure and intelligent functionality in Enterprise, Data Center and Service Provider Equipment. Cavium processors and solutions are supported by an extensive ecosystem of operating systems, tools, application stacks, hardware reference designs and other products. Cavium is headquartered in San Jose, CA with design centers in California, Massachusetts, India, Israel, China and Taiwan.



Follow us: [f](#) [g+](#) [in](#) [t](#) [You Tube](#) [RSS](#)

Corporate Headquarters Cavium, Inc. 2315 N. First Street San Jose, CA 95131 408-943-7100

International Offices UK | Ireland | Germany | France | India | Japan | China | Hong Kong | Singapore | Taiwan | Israel

Copyright © 2013 - 2017 Cavium, Inc. All rights reserved worldwide. QLogic LLC (formerly QLogic Corporation) is a wholly owned subsidiary of Cavium, Inc. Cavium, QLogic, FlexSuite, and I/OFlex are registered trademarks or trademarks of Cavium Inc., registered in the United States and other countries. All other brand and product names are registered trademarks or trademarks of their respective owners.

This document is provided for informational purposes only and may contain errors. Cavium reserves the right, without notice, to make changes to this document or in product design or specifications. Cavium disclaims any warranty of any kind, expressed or implied, and does not guarantee that any results or performance described in the document will be achieved by you. All statements regarding Cavium’s future direction and intent are subject to change or withdrawal without notice and represent goals and objectives only.