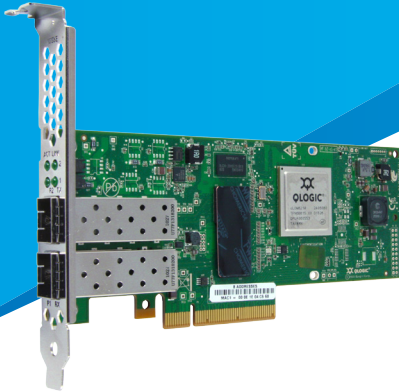


# QLogic Adapter of Choice for Critical Business Systems

QLogic Adapters from Cavium Deliver the Most Comprehensive and Robust Business Continuity Solution



## Five-Pronged Approach to Enabling Greater Business Continuity

- Reduced qualification complexity in heterogeneous data center environments
- Increased data center design flexibility and reduced inventory/spares
- Higher scalability for business-critical systems
- Highest availability and fault tolerant solutions
- Reduced recovery time/faster backups

### INDUSTRY TRENDS

Business managers have to be ready for planned and unexpected interruptions to their business operations. Minimizing downtime is a critical element for business continuity and financial stability. The need to preserve data and application availability remains the highest priority for IT managers and business organizations. In a virtualized IT world, where many virtual machines (VMs) are running workloads on fewer physical servers, high availability is even more important than ever. The increasing adoption of virtualization on servers in the data center requires new approaches to protecting applications that are running inside VMs and has become an essential element of business continuity planning. Organizations implement high-availability solutions for many reasons, including minimizing planned downtime for maintenance and upgrades, enabling rapid recovery from unplanned downtime, and meeting compliance requirements that ensure continued end-user access to important business applications.

### THE CHALLENGE

Data center infrastructures are typically a combination of heterogeneous servers and storage. Figure 1 shows the various types of deployment models. Backup in such an environment can be complex, requiring backups for a variety of systems using traditional network-enabled backup software and the duplication of tapes, which then need to be moved off-site for disaster recovery protection. Supporting today's growing enterprise business with uninterrupted services, especially during a disaster, is extremely difficult. Legacy storage systems have a hard time meeting growing storage needs and disaster recovery requirements. If your company is unable to meet recovery time objectives, your business could be without systems for several days. Using legacy equipment, a best recovery point objective may be as long as 24 hours, which means your business might lose an entire day's work. Managing interruptions to routine processes can have a major impact on an organization and lead to lost customers and revenue.

**CAVIUM'S FIVE-PRONGED APPROACH TO ENABLING GREATER BUSINESS CONTINUITY**

**Reduced Qualification Complexity in Heterogeneous Data Center Environments**

To meet the needs of the industry, Cavium™ has developed an approach to ensuring business continuity that enables the highest levels of interoperability and reliability, whether your infrastructure is discrete, virtualized, or a cloud deployment (see Figure 2). Cavium offers a broad range of QLogic® products that support heterogeneous environments across hardware (rack servers, blade servers, and storage) and software. QLogic products come in all form factors, supporting any operating system and all hypervisors and protocols.

**Increased Data Center Design Flexibility and Reduced Inventory/Spares**

QLogic adapters deliver industry-leading 10Gbps networking performance, full hardware offload for FCoE and iSCSI protocol processing, and concurrent support for three protocols—NIC, FCoE, and iSCSI. Cavium brings enterprise-class Ethernet with key features, such as VLAN segregation and multi-vendor teaming (link aggregation and fail over), enabling deployment flexibility.

**Higher Scalability for Business Critical Systems**

In a link aggregation configuration, QLogic adapters deliver up to 27 percent higher throughput as workloads increase and up to 49 percent higher throughput efficiency (Mbps/CPU utilization) compared to the Emulex® adapter.

**Highest Availability and Fault Tolerant Solutions**

Cavium delivers I/O sub-systems, such as switch independent and switch dependent load balancing, Failsafe Mode, and NIC Partitioning, which are designed to deliver the highest availability and maximum fault tolerance benefits, helping your business maintain continuity and uptime.

**Reduced Recovery Time/Faster Backups**

QLogic adapters from Cavium deliver faster backup, recovery, and access times. QLogic 8Gb Fibre Channel Adapters complete the restoration of Oracle databases, taking 51 percent less time than comparable Emulex adapters.<sup>1</sup>

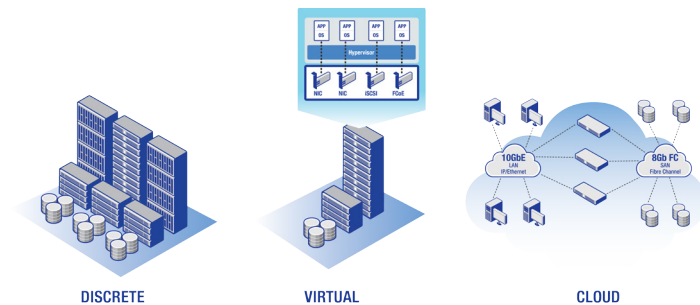


Figure 1. Deployment Models

<sup>1</sup> Competitive Brief – Adapter of Choice for Oracle Environments

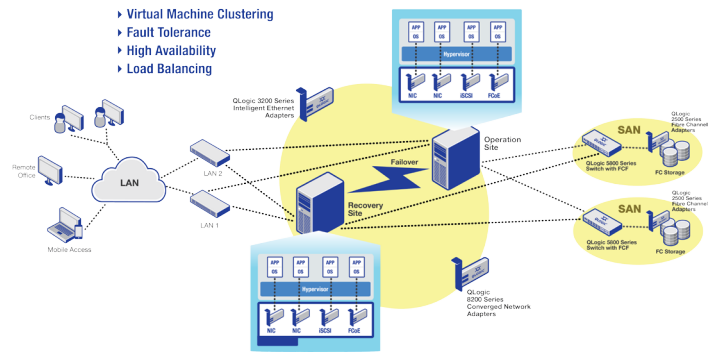
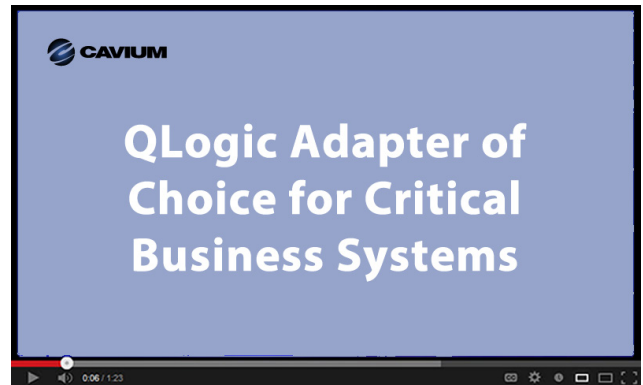


Figure 2. Virtualization Solution

**CUSTOMER BENEFITS**

QLogic products from Cavium are optimized from end-to-end, from adapter to fabric, and from edge to core. The IOPS and throughput of the QLogic adapters are best-in-class and provide unprecedented levels of performance, superior scalability, and enhanced reliability that exceed the requirements for next-generation data centers. High-performance storage networking products from Cavium ensure the broadest interoperability and design and implementation flexibility, enabling your business and data center administrator to focus on larger issues, thus meeting higher service level agreements (SLAs) for higher uptime and business continuity. IT professionals continue to rely on QLogic technology from Cavium to consolidate infrastructure, maintain the highest levels of business uptime, and reduce total cost of ownership.

**Related Video: QLogic Adapter of Choice for Critical Business Systems**



Click on the Image to Watch a YouTube Video

## 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.



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

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