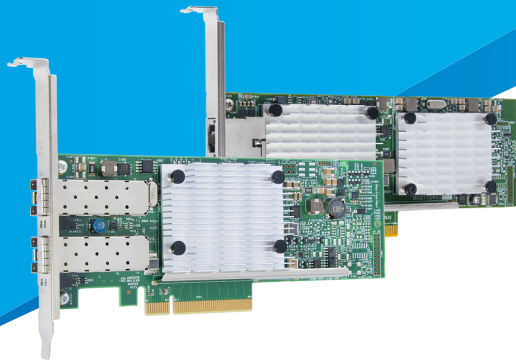


# Adapter of Choice for Network Appliances and Embedded Systems

## Cavium FastLinQ 3400 Series 10GbE Intelligent Ethernet Adapters



- Gain **CONTROL** over your system's connectivity with a full-featured and robust 10Gb Ethernet adapter—designed for today's challenges and tomorrow's possibilities.
- Advanced features and small PCIe form factor to **OPTIMIZE** deployment flexibility.
- **SCALE** application performance and system capabilities to new heights.

### OVERVIEW

As the software-defined data center (SDDC) model gains popularity, the number of OEMs, ODMs, and system integrators making appliances and embedded systems using 10GbE is growing by leaps and bounds.

The Cavium™ FastLinQ® 3400 Series Intelligent Ethernet Adapters are trusted by more tier-1 server OEMs than any other vendor. Appliance and embedded system companies are choosing the 3400 Series Adapter for 10GbE peak performance and reliability without the installation and support complexity. Easy to deploy and designed to keep CAPEX and OPEX down, Cavium FastLinQ 3400 Series Adapters allow organizations to harness the true potential of high-speed Ethernet networks.

- Full-featured, next-generation capabilities today
- Increased deployment flexibility
- Simple, yet powerful remote adapter management
- Trusted Cavium reliability
- Cost-effectively transition to 10GbE

### INDUSTRY TRENDS & CHALLENGES

Network appliances and embedded systems are purpose-built devices designed to perform tasks such as enhancing productivity, solving IT problems, or organizing and protecting information. These devices can embrace a software-defined data center (SDDC) model that extends virtualization or similar concepts into the underlying infrastructure, ultimately delivering their core functionality as a service.

With the adoption of the SDDC model in full swing, makers of these products are raising the bar with their suppliers, asking them to provide product capabilities that will extend their product portfolio to a wider audience or even a new market.

OEMs, ODMs, and system integrators designing and producing network appliances and other specialized embedded systems face a number of challenges as they attempt to grow their business and provide more compelling solutions to their customers. Reliability is a mainstay concern to maintain or enhance product quality and reputation. Controlling costs is essential to any market success. Designers of appliances and embedded systems need flexible products to keep pace with the metamorphosis their products must go through to keep up in an always evolving, fast-paced market. The challenges are many—the solutions are few.

## RELIABILITY YOU CAN COUNT ON

Cavium has over 20 years of innovation and experience building bulletproof, state-of-the-art I/O communications hardware. The Cavium FastLinQ 3400 Series Adapter has grown from 13 previous product generations. This technology is fully adopted by every major tier-1 OEM. Passing rigorous OEM server certifications validates the Cavium FastLinQ 3400 Series Adapter's dependable functionality.

## COST-EFFECTIVE TRANSITION TO 10GBE

Overcome cost and infrastructure barriers with Cavium FastLinQ 3400 Series Adapters that combine the latest Ethernet network features with RJ45 network compatibility for a cost-effective transition to 10GbE. 10GBASE-T delivers great implementation flexibility due to its 100-meter reach capability and provides requisite backward compatibility that allows most end customers to seamlessly upgrade from their 100/1000 Mbps networks.

Cavium FastLinQ 3400 Series Adapters are also Energy Efficient Ethernet (EEE) compliant to reduce system operating costs.

## UNCOMPROMISING PERFORMANCE

In today's Information Age, faster data means faster business. Cavium leads the industry in providing high-performance hardware. With full 10GbE line-rate performance, Cavium FastLinQ 3400 Series Adapter Intelligent Ethernet Adapters deliver exceptional performance for network data traffic with backward compatibility to 1Gb. The broadest set of adapter offloads in the industry ensures that platform processor burden is low, ensuring maximum application performance.

## INCREASED DEPLOYMENT FLEXIBILITY

Cavium FastLinQ 3400 Series Adapters use an industry-standard PCIe interface for easy integration and an MD2 form factor for suitability into a broader range of applications.

The Cavium FastLinQ 3400 Series Adapter delivers industry-leading 10GbE networking performance and enterprise-class features enabling unmatched deployment flexibility and end-product capability expansion, such as:

- Virtual eXtensible Local Area Network (VXLAN) and Network Virtualization Generic Routing Encapsulation (NVGRE) to overcome VLAN scaling limitations.

- Switch Independent NIC Partition (NPAR) to carve up a single 10GbE port into multiple ports allocating bandwidth where it's needed. The result is fine-grain quality of service (QoS) control for maximum application performance.
- Single Root-I/O Virtualization (SR-IOV) for next-generation I/O virtualization. Reducing the CPU burden increases virtual machine (VM) density and performance.

## CONTROL ALL OF YOUR CAVIUM FASTLINQ 3400 SERIES ADAPTERS ACROSS THE NETWORK

The Cavium FastLinQ 3400 Series Adapter enables rapid deployment and easy local or remote multi-adapter administration with robust functionality. Using Cavium's graphical user interface (GUI) and command line interface (CLI) options enables administrators to discover, configure, monitor, diagnose, provision, and control access across multiple physical devices spanning different networks, operating systems, and protocols.

## CONCLUSION

Cavium FastLinQ 3400 Series of Intelligent Ethernet Adapters enable designers to get the most out of their platform. Reliable, cost-effective, high-performance and easy-to-manage—that's the Cavium FastLinQ 3400 Series Adapter—the Ethernet adapter of choice for network appliance and embedded systems.

## TRUSTED SOLUTIONS

Cavium is a global leader and technology innovator in high-performance server and storage networking connectivity and application acceleration solutions. The company's leadership in product design and maturity of software stack make it the top choice of leading OEMs, including Cisco®, Dell EMC, Hitachi Data Systems, HPE®, IBM®, Lenovo®, NetApp®, and Oracle®, as well as channel partners worldwide for their virtualized, converged, and cloud environment solutions.

## 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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