

Cavium LiquidIO[®] Server Adapter Family

Product Brief

OVERVIEW

Cavium's LiquidIO[®] Server Adapter family, built using Cavium's market leading network and security processing technology, enables data centers to rapidly deploy high performance distributed firewall, application classification and bandwidth management, security, VxLAN, SDN, SSL based web server and distributed load balancing applications for both installed and new infrastructure while clearly enhancing server utilization, response times and network agility. The LiquidIO[®] Server Adapters are designed for deployment by cloud service providers, enterprises and private data centers worldwide.

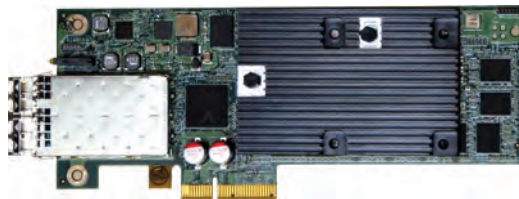
This new family of adapters includes LiquidIO[®] Server Adapter 210Sv with two 10 Gigabit Ethernet ports and the 110Sv with one 10 Gigabit Ethernet port. This product family provides a proven, high-performance, fully programmable adapter platform for cloud service providers. It is offered in a standard server compliant half-height PCI Express form-factor and is supported by a feature rich Software Development Kit (SDK). This SDK allows customers and partners to develop high performance applications using market leading IP tables, encapsulation, traffic management/QoS, deep packet inspection, TCP and SSL processing capability of the LiquidIO[®] Adapters. The adapter family provides out-of-the-box 10 Gbps performance for applications highlighted above.

FEATURES

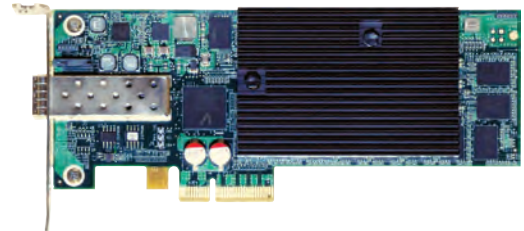
- General purpose programmability with 10Gbps Networking & Security support
- IP Tables, Encapsulation, Traffic Management
- High performance deep packet inspection
- Supports VXLAN, NVGRE, STT, IPsec and custom overlay stacks
- Supports Open vSwitch, Openflow compatible
- Crypto support
- Integrated networking and System I/O: 10 GbE, PCIe Gen2
- Highest levels of integration
 - TCP Offload
 - Data Plane Acceleration
 - Hashing, Encryption and Compression support

BENEFITS

- Seamlessly add multiple high performance networking apps to servers
- Provides 10G distributed firewall
- Application Classification/Bandwidth Management
- Provides 10G SDN performance
- Standards based controller support speeds time to market
- Provides 10G+ security perf for SDN Apps
- Latest Network and IO connectivity
- NIC accelerates complete Network Traffic (TCP, Compression, SSL, IPsec etc) and with different SW images can be deployed in different applications
 - TCP TOE, Secure NIC, Billing, Load balancers and many more



LiquidIO[®] Server Adapter 210Sv

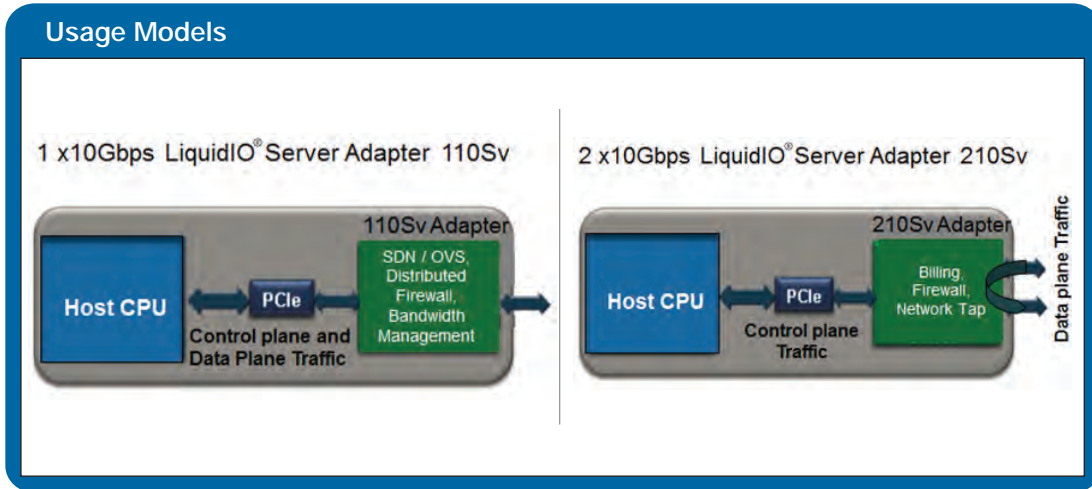


LiquidIO[®] Server Adapter 110Sv

Adapters

Cavium LiquidIO® Server Adapter Family

Product Brief



SPECIFICATIONS

- Half-Height, half-length PCI-E Gen 2 Adapter
- 210Sv: 2GB of DDR3 Memory
- 110Sv: 1GB of DDR3 Memory
- 1GB+ NVRAM
- PCIe spec power, No additional power needed (unique for programmable adapters)
- Operating Conditions
 - Operating temperature: 0 to 45° C
- Regulatory Certifications
 - Safety – USA / Canada: cTUVus UL
 - EMC – USA / Canada: FCC / ICES, Class A

SOFTWARE SUPPORT

- Drivers for Linux and Windows OS
- KVM 2.6.31 onwards, XENServer 6.2, Hyper-V 2012 and VMWare vSphere 5.1
- Out of the box SDN (OVS + Overlays) software
- Fast path IPtables for Stateful Firewall
- iSCSI Offload software image
- Basic NIC software image with LRO/TSO
- Complete TOE software image
- SSL offload software image
- Crypto and Compression APIs
- Software Development Kit and profiling tools for custom apps
- Complete GNU tool-chain and debugger

LiquidIO® SDN Server Adapter

Adapter	System Interface	NIC Interface	Memory	Compute Cycles	Dimensions
210Sv	PCIe Gen2.0 x4	2x10 Gbe	2GB	6.4GHz+	2.7"x6.6"
110Sv	PCIe Gen2.0 x4	1x10 Gbe	1GB	4GHz+	2.7"x6.6"