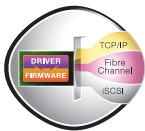


10Gb/s Adapter Providing Optimized Performance for iSCSI Storage at Virtualized Data Centers

The OneConnect™ OCe10102-I iSCSI adapter provides highly optimized 10 Gigabit Ethernet (10GbE) network connectivity with protocol offloads for iSCSI, stateless TCP/IP and TCP Offload Engine (TOE) that deliver superior networking performance and server efficiency. As part of the OneConnect Universal Converged Network Adapter (UCNA) product family, the OCe10102-I provides performance that is superior to iSCSI solutions based on software initiators and standard network interface cards (NICs).

1. Single Framework for Simplified Version Management and Testing



The OneConnect UCNA product family provides a single 10GbE framework for network and storage connectivity. All OneConnect UCNAs use the same NIC drivers, firmware and boot code with consistent NIC teaming and TCP offload support. The unified OneConnect framework provides simplified version management and testing that streamlines deployments and lowers data center Operational Expense (OpEx). Competing products are partial solutions—OneConnect is the only product family that supports TCP/IP, TOE, iSCSI and Fibre Channel over Ethernet (FCoE) with universal 10GbE connectivity.

2. Superior iSCSI Server Performance



Server performance tests typically show more than a 50% reduction in CPU usage when comparing OneConnect iSCSI offload with software initiators and standard NICs. As shown by these results, OCe10102-I iSCSI adapters deliver substantial server efficiency, optimizing performance for virtualized servers and business-critical applications.

3. Unified Management for Networking and Storage Reduces OpEx



OneConnect™



OneCommand™

The OneCommand™ Manager application enables management of Emulex OneConnect UCNAs and LightPulse Host Bus Adapters (HBAs) throughout the data center from a centralized console. Using the OneCommand Manager application, administrators can manage high-performance connections for networking and storage (Fibre Channel, FCoE and iSCSI) with a single view of the entire network. The OneCommand Manager application provides centralized discovery, monitoring, reporting and management of both local and remote adapters from a secure remote client. In-depth management capabilities include remote firmware and boot code upgrades, beaconing, statistics and advanced diagnostics.

4. Scalability and Performance for Virtualization



OneConnect protocol offloads provide greater CPU efficiency, enabling up to 20% more virtual machines (VMs) per host server than competing products. With high-performance, dual-port 10GbE connectivity, a single OCe10102-I iSCSI adapter provides the equivalent bandwidth of 20 Gigabit Ethernet or iSCSI adapters, providing significant savings for adapters, cabling and switch ports. Accelerators/off load engines for all supported protocols allow the OCe10102-I iSCSI adapter to deliver maximum performance, regardless of the mix of network traffic.



5. Superior Ethernet Server Performance

Each OCe10102-I port supports separate iSCSI and 10GbE NIC functions. In addition to iSCSI offload, OCe10102-I adapters also provide optimized network performance with TCP/IP and TOE offloads. Networking benchmark tests resulted in as much as 50% increase in throughput when OneConnect TOE support was enabled using TCP Chimney Offload for Windows Server 2003 and 2008.

Emulex OneConnect is the only product family that supports TCP/IP, TOE, iSCSI and FCoE with universal 10GbE connectivity.

Protocol Offload	Emulex UCNA	Brocade CNA	QLogic CNA	QLogic NIC	Intel NIC	Broadcom NIC
FCoE	✓	✓	✓			
iSCSI	✓					✓
TOE, TCP Chimney	✓			✓		✓
TCP/IP (stateless)	✓	✓	✓	✓	✓	✓

With the OneConnect UCNA and the OneCommand Manager application products, Emulex is the only vendor with the features that data centers require to achieve networking and storage convergence.

Features	Emulex	QLogic	Brocade	Intel	Broadcom
Common NIC drivers for NIC, iSCSI and FCoE	✓				
Leverages existing Fibre Channel and NIC drivers	✓				
Broad storage interoperability support	✓	✓			
Unified storage management software	✓	✓	✓		
Unified NIC, iSCSI, FCoE and Fibre Channel management	✓				
CPU offload for all protocols	✓				
High performance per watt	✓				