

# EMC—BROCADE

## An EMC Select Partner Overview

### ESSENTIALS

#### Partner products

- Brocade 400 Series HBA
- Brocade 800 Series HBA
- Brocade 1010 Series CNA
- Brocade 1020 Series CNA

#### EMC products

- EMC Symmetrix®
- EMC VNX™ Series

#### Solution highlights

- Advanced performance
- Intelligent PCIe lane negotiation to maximize bus throughput
- Parallel I/O engines to support simultaneous I/O transfers
- Centralized management and provisioning

### ADVANCED PERFORMANCE AND EFFICIENCY FOR YOUR NETWORK

Brocade® is a leader in data center networking solutions and services that enable organizations to manage their most vital information assets. Global 500 companies rely on Brocade technology to keep their businesses running around the clock.

### FIBRE CHANNEL HBAS AND FCOE CNAS

The Brocade Fibre Channel HBAs and FCoE CNAs are a class of industry-standard, PCI Express server connectivity products that are interoperable with the vast majority of SAN and Converged Enhanced Ethernet switch ports. Designed to meet the growing connectivity, virtualization, and operating efficiency needs of enterprise data centers, these HBAs and CNAs provide advanced performance, robust services, built-in extensibility, and seamless interoperability.

### KEY FEATURES

#### High-performance configuration:

- Advanced performance providing up to 500,000 IOPS per port
- Intelligent PCIe lane negotiation to maximize bus throughput
- Parallel I/O engines to support simultaneous I/O transfers
- Hardware-based low/medium/high data prioritization enables QoS
- Flow control to maximize link utilization between HBAs and adjacent switch ports
- 4 Gbps FC, 8 Gbps FC, and 10 Gbps DCB line rates

#### Centralized management and provisioning:

- Local and remote management of distributed HBAs with fabric-based, boot LUN discovery for automated SAN boot configuration to quickly deploy diskless servers
- HBAs and CNAs are managed along with the entire fabric by EMC® Connectrix® Manager Data Center Edition application software
- Unified drivers and management utilities for HBAs and CNAs
- FC-ping, FC-Traceroute, and LED port beaconing to simplify fault isolation

### THE BROCADE HBA

The Brocade 415 (single port), Brocade 425 (dual ports) 4 Gbps, Brocade 815 (single port), and Brocade 825 (dual ports) 8 Gbps Fibre Channel to PCIe HBAs provide server connectivity through excellent hardware capabilities and software configurability. Brocade HBAs are designed to help organizations implement end-to-end services across next-generation data centers.



**BROCADE**

## THE BROCADE CNA

The Brocade 1010 (single port) and Brocade 1020 (dual ports) 10 Gbps FCoE/CEE CNAs provide server I/O consolidation through exceptional hardware capabilities that integrate seamlessly with existing Fibre Channel and Ethernet environments. Brocade CNAs help organizations reduce the number of adapters used in servers, which in turn reduce the number of cables and corresponding switch ports to lower overall costs. The Brocade CNA consolidates the data networking of a NIC with the storage networking of a Fibre Channel adapter onto a single PCI-Express adapter. By transporting both storage and Ethernet networking traffic across the same physical connection, the CNAs reduce ownership costs and improve ROI.

## ABOUT BROCADE

From enterprise data centers and campus networks to the service provider core, Brocade networking solutions help organizations optimize their current and future applications while simplifying their operations. By leveraging complete solutions for storage, IP, and converged networks, these organizations can maximize the value of their data and achieve a fast ROI.

## ABOUT EMC

EMC Corporation is the world's leading developer and provider of information infrastructure technology and solutions that enable organizations of all sizes to transform the way they compete and create value from their information. Information about EMC's products and services can be found at [www.EMC.com](http://www.EMC.com).

### CONTACT US

For more information on how EMC and Brocade solutions work together to optimize your business transactions, contact your EMC or Brocade representative or visit their websites at [www.EMC.com](http://www.EMC.com) and [www.brocade.com](http://www.brocade.com).

EMC<sup>2</sup>, EMC, Connectrix, Symmetrix, VNX, and the EMC logo are registered trademarks or trademarks of EMC Corporation in the United States and other countries. All other trademarks used herein are the property of their respective owners. © Copyright 2010, 2012 EMC Corporation. All rights reserved. Published in the USA. Solution Overview 05/12 H7145.2