



Product Bulletin:

Brocade DCX-4S Backbone Director

Revision History

4 March 2009 - Initial version

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

This product bulletin announces the availability of the Brocade DCX-4S Backbone Director. Following the introduction of the industry-leading 384-port 8Gbit/sec Brocade DCX Backbone in 2008, the new Brocade DCX-4S Backbone scales to 192 ports at up to full 8Gbit/sec speed through its four modular blade slots. It leverages the same breakthrough technology as the larger model to deliver industry-leading performance, scalability, and energy efficiency. The Brocade DCX Backbone family was designed to address the data growth and application demands of evolving enterprise data centers.

The initial release of the Brocade DCX-4S supports the full range of blades already supported on the Brocade DCX Backbone, including 16-, 32-, and 48-port 8Gb/sec Fibre Channel blades; 6-port 10Gb/sec ISL line card (FC10-6); and FS8-18 16-port encryption blade.

2. What's New?

The Brocade DCX-4S leverages the newly available Brocade Fabric OS (FOS) 6.2 release, including a new Virtual Fabrics capability that enables the logical partitioning of a physical SAN into logical fabrics. The Brocade DCX-4S also offers integration with several key management products, and supports advanced features such as fabric-wide encryption for data at rest for disk and tape. In addition, the Brocade DCX-4S provides a full suite of Adaptive Networking features that help optimize fabric behavior and help provide ample bandwidth for critical applications. To enable network convergence at the server edge, the Brocade DCX-4S utilizes a multiprotocol architecture that is future-built to support emerging Converged Enhanced Ethernet (CEE) and Fibre Channel over Ethernet (FCoE) by simply adding a blade at any time that is right for the customer.

The Brocade DCX-4S can be configured with up to 192 8Gb FC ports per chassis (4 blade slots) and continues the “any-slot, any-service” philosophy from the Brocade DCX platform.

Brocade DCX-4S can have a dual-chassis configuration using an inter-chassis link (ICL) to become a dual-chassis system with 384 Fibre Channel ports. The inter-chassis links operate at a total speed of 544Gb/sec and bundle 64 8Gb ICL ports per chassis with a total of 128 ICL ports per dual-chassis system. The DCX-4S chassis comes with two core processors and two control processors for additional redundancy. The core blades are also used to connect two DCX-4S chassis by using ICLs. Additionally, a Brocade DCX-4S can be connected to a Brocade DCX Backbone via the same ICL ports.

The Brocade DCX-4S chassis bundle contains two core processors, two control processors, and two power supplies. It is offered in two versions: one Enterprise bundle that includes the above hardware plus the Enterprise license, and one Director bundle that includes all hardware but no Enterprise s/w license.

Four optional software licenses are available for purchase on Brocade DCX-4S Backbone:

- Enterprise software bundle (can also be ordered as part of the Chassis bundle)
- FICON/CUP Management License
- Integrated Routing License
- Inter-Chassis Link Kit (consists of one license and two cables)

The Brocade DCX-4S can be managed using Brocade Data Center Fabric Manager (DCFM) Enterprise or Professional software to provide unified, end-to-end management of data center fabrics from storage ports on networked storage systems to Host Bus Adapters (HBAs) attached to physical or virtualized servers.

NetApp provides SupportEdge maintenance services for both Brocade DCX-based and DCFM package offerings.

3. Sales Tools (Sales Guides, Training Presentations, SE Presentations)

- [NetApp Ethernet Storage Overview](#)
- [NetApp SalesEdge FC and FCoE Switches and Directors](#)
- [NetApp PartnerCenter SAN](#)

4. Customer-Ready Tools (Customer Presentations, Datasheets)

- [NetApp SalesEdge FC and FCoE Switches and Directors](#)
- [NetApp PartnerCenter SAN](#)

5. System Requirements

For NetApp FC storage system configurations that are supported by NetApp, refer to the NetApp Interoperability Matrix.

6. Product Information

Product Photos



- The Brocade DCX-4S Chassis bundle will be offered with and without the Enterprise s/w bundle.
- The Brocade DCX-4S Chassis bundles include redundant (two) power supplies and a rack-mount kit.

Brocade DCX-4S Base Configuration

The base Brocade DCX-4S chassis is 9RU in height, and each of the two Chassis bundles come with two core blades, two control processor blades, two power supplies, two fan modules, two WWN cards, and an air exhaust kit.

Brocade DCX-4S Chassis Equipment

Part Number	Description	Discount Category
X-DCX4S-0001-R5	Brocade DCX-4S Switch,Director Bundle,R5	B
X-DCX4S-0002-R5	Brocade DCX-4S Switch,Enterprise Bundle,R5	B
X-DCX4S-0106-R5	Brocade DCX-4S Core Blade,R5	B

Brocade DCX-4S Misc Hardware

Part Number	Description	Discount Category
X-DCX4S-0124-R5	Brocade DCX-4S WWN Card,R5	B
X-DCX4S-0123-R5	Brocade DCX-4S WWN Cover,R5	B
X-DCX4S-1000-R5	Brocade DCX-4S ICL Kit (1 Lic, 2 Cables),R5	B

X-ACCDCX4S-01-R5	Brocade DCX-4S Accessory Tray,R5	B
X-DCX4S-0105-R5	Brocade DCX-4S Cable Management Comb,R5	B
X-DCX4S-0126-R5	Brocade DCX-4S Mid-mount TELCO Kit,R5	B
X-DCX4S-0130-R5	Brocade DCX-4S 18x24 Port Side ExhaustKit,R5	B

Brocade DCX-4S Software

Part Number	Description	Discount Category
SW-DCX4SEB-01-QS	Brocade DCX-4S Enterprise Package,QS	J
SW-DCX4SCUP-01-QS	Brocade DCX-4S FICON Management,QS	J
SW-DCX4SIR-01-QS	Brocade DCX-4S Integrated Routing,QS	J

Service Options

NetApp offers SupportEdge service support for the Brocade DCX-4S. The same service offerings currently provided for the Brocade DCX will be available for the DCX-4S.

Part Number	Description	Discount Category Code
SVC-O-2HR	HW Support, Premium, 2hr	S
SVC-O-4HR	HW Support, Premium, 4hr	S
SVC-O-NBD	HW Support, Premium, NBD	S
SVC-INST-O-2HR	Initial Install, Premium, 2hr	S
SVC-INST-O-4HR	Initial Install, Premium, 4hr	S
SVC-INST-O-NBD	Initial Install, Premium, NBD	S
SVC-A-4D	HW Support, Standard,4hr	S
SVC-A-4R	HW Support, Standard Replace,4hr	S
SVC-A-NBR	HW Support, Standard Replace, NBD	S
SVC-A-IN-4D	HW Support, Standard, Inst, 4hr	S
SVC-A-IN-4R	HW Support, Standard Replace, Inst, 4hr	S
SVC-A-IN-NBR	HW Support, Standard Replace, Inst, NBD	S
SVC-INST-A-IN-4D	Initial Install, Standard, Inst, 4hr	S
SVC-INST-A-IN-4R	Initial Install, Standard Delivery, Inst, 4hr	S
SVC-INST-A-IN-NBR	Initial Install, Standard Delivery, Inst, NBD	S
SVC-SEC-2HR	HW Support, Secure, 2hr	S
SVC-SEC-4HR	HW Support, Secure, 4hr	S
SVC-SEC-NBD	HW Support, Secure, NBD	S
SVC-INST-SEC-2HR	Initial Install, Secure, 2hr	S
SVC-INST-SEC-4HR	Initial Install, Secure, 4hr	S
SVC-INST-SEC-NBD	Initial Install, Secure, NBD	S
SVC-SEC-2D	HW Support, Secure, Parts Delivery, 2hr	S
SVC-SEC-4D	HW Support, Secure, Parts Delivery, 4hr	S
SVC-SEC-NBDD	HW Support, Secure, Parts Delivery, NBD	S

SW-SSP-O-2HR	SW Subs,Premium,2hr	S
SW-SSP-O-4HR	SW Subs,Premium,4hr	S
SW-SSP-O-NBD	SW Subs, Premium, NBD	S
SW-SSP-A-4D	SW Subs, Standard, Parts Delivery, 4hr	S
SW-SSP-A-4R	SW Subs, Standard Replace, 4hr	S
SW-SSP-A-NBR	SW Subs, Standard Replace, NBD	S
SW-SSP-A-IN-4D	SW Subs, Standard, Inst, 4hr	S
SW-SSP-A-IN-4R	SW Subs, Standard Replace, Inst, 4hr	S
SW-SSP-A-IN-NBR	SW Subs, Standard Replace, Inst, NBD	S
SW-SSP-SEC-2HR	SW Subs,Secure,2hr	S
SW-SSP-SEC-4HR	SW Subs,Secure,4hr	S
SW-SSP-SEC-NBD	SW Subs, Secure, NBD	S
SW-SSP-SEC-2D	SW Subs, Secure, Parts Delivery, 2hr	S
SW-SSP-SEC-4D	SW Subs, Secure Parts Delivery, 4hr	S
SW-SSP-SEC-NBDD	SW Subs, Secure Parts Delivery, NBD	S

Product Availability

The Brocade DCX-4S Backbone and associated components will be available to quote in the March 9, 2009, release of the Quote Tool.

7. Regulatory Compliance

The Brocade DCX-4S meets all defined NetApp EMI and RoHS compliance requirements.

8. Warranty and Service

The warranty, extended warranty, and NetApp SupportEdge purchases and renewals apply to Brocade DCX-4S Backbone and all its software/hardware options, just as they do to storage controllers (FAS systems) and other Brocade switches already under NetApp SupportEdge services. Customers can order SupportEdge Premium, SupportEdge Standard, and SupportEdge Secure for Government. For additional support options, see Support Options, above.

Contact Information: Please contact your NetApp sales or channel partner representative with questions about this bulletin.



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