



Product Bulletin:

Brocade 7800 and FX8-24 Blade Introduction

Revision History

4 August 2010 - 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 7800 switch and FX8-24 blade for the DCX/DCX-4S directors for First Customer Ship.

The Brocade 7800 switch is intended to (over time) replace the Brocade 7500 switch. The FX8-24 blade likewise replaces the existing FR4-18i blade for SAN extension applications and deployments.

Support for the Brocade 7800 switch will be offered via resale of Brocade Direct Support (BDS) service contracts, with contract durations ranging from 1–5 years. The FX8-24 blade will be covered under existing NetApp SupportEdge contracts for the director chassis where the blades are installed.

2. What's New?

NetApp will be reselling the Brocade 7800 switch, as well as the Brocade FX8-24 blade for the DCX/DCX-4S directors.

The Brocade 7800 extension switch is Brocade's next-generation product for SAN extension, remote data replication, backup, and data migration. It leverages cost-effective IPWAN transport to extend open systems and mainframe disk and tape storage applications over distances that would be impossible or too expensive with standard Fibre Channel connections. The Brocade 7800 is ideal for:

- Open systems and mainframe disk and tape extension
- Multisite synchronous and asynchronous storage replications
- Centralized SAN backup, recovery, and archiving
- Global data and storage resource migration, distribution, and sharing

The Brocade FX8-24 blade is designed for installations into existing Brocade DCX/DCX-4S director-class platforms. It provides 24 ports in total, 12 x 8G FC ports, 10 x 1GbE ports, and 2 x 10GbE ports. The 12 FC ports

and the 10 GbE ports are always active while the two 10GbE ports require a separate 10GbE license. The use cases for and benefits of the FX8-24 blade are similar to that of the Brocade 7800 extension switch. Available licenses are listed in section 5.

3. Sales and Customer-Ready Tools (Training, SE, Customer Presentations, Datasheets, Sales Guides)

NetApp Field Portal FC Switches and Directors

4. System Requirements

The Brocade 7800 and FX8-24 blade require Brocade firmware release FOS v6.4 or later.

The latest Brocade support statements can be found at the NetApp Fibre Channel Switch Support Matrix:

Support Matrix

5. Product Information

The Brocade 7800 is a 1RU fixed port switch with 16 x 8G Fibre Channel ports and 6 x 1GbE FCIP ports. The 16 FC ports utilize the latest SFP+ technology with long- or short-haul optics, and the six GbE ports utilize SFP optics.



The Brocade will be sold in three basic variants/configurations:

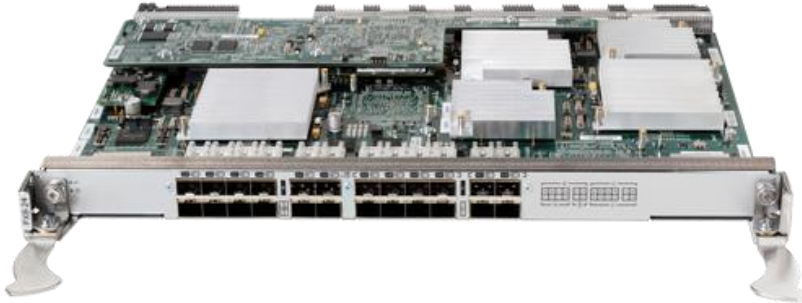
- 7800 Standard: Base model with four FC ports and two GbE ports activated
 - Upgrade license available from Standard to Enterprise (SH) and (LH) configurations
- 7800 Enterprise (SH): All 22 ports activated, including short-haul optics for the FC ports
- 7800 Enterprise (LH): All 22 ports activated, including long-haul optics for the FC ports

Since the Brocade 7800 is a multipurpose application switch, there are multiple software licenses available for purchase with the 7800:

- Advanced Extension
- Advanced Acceleration for FICON
- Integrated Routing
- Enterprise Package
- ISL Trunking
- Adaptive Networking
- Fabric Watch
- Advanced Performance Monitoring

- Server Application Optimization
- FICON License
- Extended Fabric

The Brocade FX8-24 blade is designed for use within the Brocade DCX/DCX-4S directors.



The Brocade FX8-24 blade comes equipped with 12 x 8G FC ports and 10 x 1GbE ports plus 2 x 10GbE ports (requires 10GbE license). The blade is sold in two basic configurations:

- With 22 (12 FC & 10 x 1GbE) ports activated and 12 short-haul 8G SFP+ optics
- With 22 (12 FC & 10 x 1GbE) ports activated and 12 long-haul 8G SFP+ optics

The Brocade FX8-24 shares a subset of the applications available with the Brocade 7800 switch:

- Advanced Extension
- Advanced Acceleration for FICON
- 10GbE License (activates the two 10GbE ports)

The following new part numbers will be added to the NetApp price list and Customer/PartnerEdge systems (Brocade Direct Support part numbers are listed in section 7).

Part Number	Description	Discount Category Code
X-7800-0001-R5	Switch,Brocade 7800 6-Port w/4 8Gb SWL SFP	C
X-7800F-0001-R5	Switch,Brocade 7800 22-Port w/16 8Gb SWL SFP	C
X-7800F-0002-R5	Switch,Brocade 7800 22-Port w/16 8Gb LWL SFP	C
X-7800UG-0001-R5	POD,16-Port Upgrade w/12 8Gb SWL SFPs	C
X-7800UG-0002-R5	POD,16-Port Upgrade w/12 8Gb LWL SFPs	C
SW-BSW-EXTSAEX-01-QS	SW ,Brocade 7800 Advance Extension,QS	C
SW-BSW-EXTSAFI-01-QS	SW ,Brocade 7800 Advance Accel for FICON,QS	C
SW-BSW-EXTSIR-01-QS	SW ,Brocade 7800 Integrated Routing,QS	C
SW-BSW-EXTSEB-01-QS	SW ,Brocade 7800 Enterprise	C

	Package,QS	
SW-BSW-EXTSTRK-01-QS	SW,Brocade 7800 ISL Trunking,QS	C
SW-BSW-EXTSAN-01-QS	SW,Brocade 7800 Adaptive Networking,QS	C
SW-BSW-EXTSFWH-01-QS	SW,Brocade 7800 Fabric Watch,QS	C
SW-BSW-EXTSPRF-01-QS	SW,Brocade 7800 Advance Perf Monitoring,QS	C
SW-BSW-EXTSSAO-01-QS	SW,Brocade 7800 Server App Optimization,QS	C
SW-BSW-EXTSCUP-01-QS	SW,Brocade 7800 FICON,QS	C
SW-BSW-EXTSEXF-01-QS	SW,Brocade 7800 Extended Fabric,QS	C
X-000190-R6	SFP,Brocade 1GbE RJ-45 Copper	C

Software Subscription Plans

All required software licenses and corresponding part numbers are listed in the Product Information section.

Downloading

For downloading all software, go to [NOW Download Software](#).

To download the latest Brocade FOS version, go to:

[Brocade Firmware Download Page](#)

Product Availability

The Brocade 7800 extension switch will be available in the September 2010 Quote Tool release. The FX8-24 blade will be available to quote in the September 2010 release of the Quote Tool.

6. Regulatory Compliance

Products need to be validated against the NetApp Safety/EMI Regulatory Compliance List prior to order submission. This is required to ensure that products are being sold only in the countries in which NetApp has received regulatory compliance certification. This information can be found in the Field Portal by searching under “Compliance, Policies and Procedures” or following the links below:

- [RoHS Compliance](#)
- [Safety/EMI Regulatory Compliance \(XLS\)](#)
- [WEEE Compliance](#)

7. Warranty and Service

The FX8-24 blade will be covered under the existing (NetApp SupportEdge) service contract for the director (DCX or DCX-4S) already in place. With the Brocade 7800 extension switch, NetApp requires the purchase of a Brocade Direct Support (BDS) service contract at the time of equipment purchase. NetApp resells BDS service

contracts for the Brocade 7800 extension switch with 1- to 5-year duration. In addition, the upgrade from the standard version (6 ports active) to the fully activated version of the Brocade 7800 requires a separate BDS support contract. The BDS service part numbers are as follows:

Part Number	Description
SVCVN-BRCD-7800-RTF-1	Service, Brocade 7800 6-Port 1Yr RTF
SVCVN-BRCD-7800-RTF-2	Service, Brocade 7800 6-Port 2Yr RTF
SVCVN-BRCD-7800-RTF-3	Service, Brocade 7800 6-Port 3Yr RTF
SVCVN-BRCD-7800-RTF-4	Service, Brocade 7800 6-Port 4Yr RTF
SVCVN-BRCD-7800-RTF-5	Service, Brocade 7800 6-Port 5Yr RTF
SVCVN-BRCD-7800-NDP-1	Service, Brocade 7800 6-Port 1Yr NBD Parts
SVCVN-BRCD-7800-NDP-2	Service, Brocade 7800 6-Port 2Yr NBD Parts
SVCVN-BRCD-7800-NDP-3	Service, Brocade 7800 6-Port 3Yr NBD Parts
SVCVN-BRCD-7800-NDP-4	Service, Brocade 7800 6-Port 4Yr NBD Parts
SVCVN-BRCD-7800-NDP-5	Service, Brocade 7800 6-Port 5Yr NBD Parts
SVCVN-BRCD-7800-4P-1	Service, Brocade 7800 6-Port 1Yr 4HR Parts
SVCVN-BRCD-7800-4P-2	Service, Brocade 7800 6-Port 2Yr 4HR Parts
SVCVN-BRCD-7800-4P-3	Service, Brocade 7800 6-Port 3Yr 4HR Parts
SVCVN-BRCD-7800-4P-4	Service, Brocade 7800 6-Port 4Yr 4HR Parts
SVCVN-BRCD-7800-4P-5	Service, Brocade 7800 6-Port 5Yr 4HR Parts
SVCVN-BRCD-7800-NDO-1	Service, Brocade 7800 6-Port 1Yr NBD Onsite
SVCVN-BRCD-7800-NDO-2	Service, Brocade 7800 6-Port 2Yr NBD Onsite
SVCVN-BRCD-7800-NDO-3	Service, Brocade 7800 6-Port 3Yr NBD Onsite
SVCVN-BRCD-7800-NDO-4	Service, Brocade 7800 6-Port 4Yr NBD Onsite
SVCVN-BRCD-7800-NDO-5	Service, Brocade 7800 6-Port 5Yr NBD Onsite
SVCVN-BRCD-7800-4OS-1	Service, Brocade 7800 6-Port 1Yr 4HR Onsite
SVCVN-BRCD-7800-4OS-2	Service, Brocade 7800 6-Port 2Yr 4HR Onsite
SVCVN-BRCD-7800-4OS-3	Service, Brocade 7800 6-Port 3Yr 4HR Onsite
SVCVN-BRCD-7800-4OS-4	Service, Brocade 7800 6-Port 4Yr 4HR Onsite
SVCVN-BRCD-7800-4OS-5	Service, Brocade 7800 6-Port 5Yr 4HR Onsite
SVCVN-BRCD-7800F-RTF-1	Service, Brocade 7800 22-Port 1Yr RTF
SVCVN-BRCD-7800F-RTF-2	Service, Brocade 7800 22-Port 2Yr RTF
SVCVN-BRCD-7800F-RTF-3	Service, Brocade 7800 22-Port 3Yr RTF
SVCVN-BRCD-7800F-RTF-4	Service, Brocade 7800 22-Port 4Yr RTF
SVCVN-BRCD-7800F-RTF-5	Service, Brocade 7800 22-Port 5Yr RTF
SVCVN-BRCD-7800F-NDP-1	Service, Brocade 7800 22-Port 1Yr NBD Parts
SVCVN-BRCD-7800F-NDP-2	Service, Brocade 7800 22-Port 2Yr NBD Parts
SVCVN-BRCD-7800F-NDP-3	Service, Brocade 7800 22-Port 3Yr NBD Parts
SVCVN-BRCD-7800F-NDP-4	Service, Brocade 7800 22-Port 4Yr NBD Parts
SVCVN-BRCD-7800F-NDP-5	Service, Brocade 7800 22-Port 5Yr NBD Parts
SVCVN-BRCD-7800F-4P-1	Service, Brocade 7800 22-Port 1Yr 4HR Parts
SVCVN-BRCD-7800F-4P-2	Service, Brocade 7800 22-Port 2Yr 4HR Parts
SVCVN-BRCD-7800F-4P-3	Service, Brocade 7800 22-Port 3Yr 4HR Parts
SVCVN-BRCD-7800F-4P-4	Service, Brocade 7800 22-Port 4Yr 4HR Parts
SVCVN-BRCD-7800F-4P-5	Service, Brocade 7800 22-Port 5Yr 4HR Parts
SVCVN-BRCD-7800F-NDO-1	Service, Brocade 7800 22-Port 1Yr NBD Onsite
SVCVN-BRCD-7800F-NDO-2	Service, Brocade 7800 22-Port 2Yr NBD Onsite
SVCVN-BRCD-7800F-NDO-3	Service, Brocade 7800 22-Port 3Yr NBD Onsite
SVCVN-BRCD-7800F-NDO-4	Service, Brocade 7800 22-Port 4Yr NBD Onsite
SVCVN-BRCD-7800F-NDO-5	Service, Brocade 7800 22-Port 5Yr NBD Onsite
SVCVN-BRCD-7800F-4OS-1	Service, Brocade 7800 22-Port 1Yr 4HR Onsite
SVCVN-BRCD-7800F-4OS-2	Service, Brocade 7800 22-Port 2Yr 4HR Onsite
SVCVN-BRCD-7800F-4OS-3	Service, Brocade 7800 22-Port 3Yr 4HR Onsite
SVCVN-BRCD-7800F-4OS-4	Service, Brocade 7800 22-Port 4Yr 4HR Onsite
SVCVN-BRCD-7800F-4OS-5	Service, Brocade 7800 22-Port 5Yr 4HR Onsite
SVCVN-BRCD-7800UG-RTF-1	Service, Brocade 7800 POD UG 1Yr RTF
SVCVN-BRCD-7800UG-RTF-2	Service, Brocade 7800 POD UG 2Yr RTF
SVCVN-BRCD-7800UG-RTF-3	Service, Brocade 7800 POD UG 3Yr RTF
SVCVN-BRCD-7800UG-RTF-4	Service, Brocade 7800 POD UG 4Yr RTF

SVCVN-BRCD-7800UG-RTF-5	Service, Brocade 7800 POD UG 5Yr RTF
SVCVN-BRCD-7800UG-NDP-1	Service, Brocade 7800 POD UG 1Yr NBD Parts
SVCVN-BRCD-7800UG-NDP-2	Service, Brocade 7800 POD UG 2Yr NBD Parts
SVCVN-BRCD-7800UG-NDP-3	Service, Brocade 7800 POD UG 3Yr NBD Parts
SVCVN-BRCD-7800UG-NDP-4	Service, Brocade 7800 POD UG 4Yr NBD Parts
SVCVN-BRCD-7800UG-NDP-5	Service, Brocade 7800 POD UG 5Yr NBD Parts
SVCVN-BRCD-7800UG-4P-1	Service, Brocade 7800 POD UG 1Yr 4HR Parts
SVCVN-BRCD-7800UG-4P-2	Service, Brocade 7800 POD UG 2Yr 4HR Parts
SVCVN-BRCD-7800UG-4P-3	Service, Brocade 7800 POD UG 3Yr 4HR Parts
SVCVN-BRCD-7800UG-4P-4	Service, Brocade 7800 POD UG 4Yr 4HR Parts
SVCVN-BRCD-7800UG-4P-5	Service, Brocade 7800 POD UG 5Yr 4HR Parts
SVCVN-BRCD-7800UG-NDO-1	Service, Brocade 7800 POD UG 1Yr NBD Onsite
SVCVN-BRCD-7800UG-NDO-2	Service, Brocade 7800 POD UG 2Yr NBD Onsite
SVCVN-BRCD-7800UG-NDO-3	Service, Brocade 7800 POD UG 3Yr NBD Onsite
SVCVN-BRCD-7800UG-NDO-4	Service, Brocade 7800 POD UG 4Yr NBD Onsite
SVCVN-BRCD-7800UG-NDO-5	Service, Brocade 7800 POD UG 5Yr NBD Onsite
SVCVN-BRCD-7800UG-4OS-1	Service, Brocade 7800 POD UG 1Yr 4HR Onsite
SVCVN-BRCD-7800UG-4OS-2	Service, Brocade 7800 POD UG 2Yr 4HR Onsite
SVCVN-BRCD-7800UG-4OS-3	Service, Brocade 7800 POD UG 3Yr 4HR Onsite
SVCVN-BRCD-7800UG-4OS-4	Service, Brocade 7800 POD UG 4Yr 4HR Onsite
SVCVN-BRCD-7800UG-4OS-5	Service, Brocade 7800 POD UG 5Yr 4HR Onsite

8. Additional Information

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