

Cisco Catalyst 6500 Series Distributed Forwarding Cards for Cisco CEF720 Based Line Cards

PB720916

Cisco Systems[®] announces distributed forwarding cards with enhanced features for CEF720-based line cards.

The Cisco[®] Catalyst[®] 6500 Series Distributed Forwarding Card 3 (DFC3), including WS-F6700-DFC3A (DFC3A), WS-F6700-DFC3B (DFC3B), WS-F6700-DFC3BXL (DFC3BXL), is an optional daughter card for CEF720-based line cards such as WS-X6704-10GE, WS-X6724-SFP, WS-X6748-SFP, and WS-X6748-GE-TX. The DFC3 provides localized forwarding decisions for each line card and scales the aggregate system performance to reach up to 400 mpps. The new DFC3B and DFC3BXL offer enhancements to support Multiprotocol Label Switching (MPLS) and Access Control Entries (ACE) counters on the Cisco 6700 Series line cards. The DFC3BXL also has improved scalability to support one million IPv4 routes and 256-KB NetFlow entries.

Table 1 shows the supported combinations of DFC3.

Table 1. DFC3 Supported Combinations

	WS-F6700-DFC3A	WS-F6700-DFC3B	WS-F6700-DFC3BXL
WS-SUP720	PFC3A functionality	PFC3A functionality	PFC3A functionality
WS-SUP720-3B	PFC3A functionality	PFC3B functionality	PFC3B functionality
WS-SUP720-3BXL	PFC3A functionality	PFC3B functionality	PFC3BXL functionality

Announcement Summary

Introduction of WS-F6700-DFC3B and WS-F6700-DFC3BXL.

New Hardware

- WS-F6700-DFC3B
- WS-F6700-DFC3BXL

DFC3B and DFC3BXL Specifications

- Support all features that WS-F6700-DFC3A currently supports
- Support of MPLS and ACE counters
- DFC3BXL supports one million routes
- Deployed in CEF720 line cards such as WS-X6704-10GE, WS-X6724-SFP, WS-X6748-SFP, and WS-X6748-GE-TX
- Not supported on Cisco 6500 or 6800 series line cards

DFC3 Highlights

Table 2 shows features of the DFC3A, DFC3B, and DFC3BXL.

Table 2. Features of the DFC3A, DFC3B, and DFC3BXL

	DFC3A	DFC3B	DFC3BXL
Default memory	256 MB on interface module	256 MB on interface module	1 GB on interface module
MPLS support	No	Yes	Yes
ACL labels	512 KB	4096 KB*	4096 KB*
ACE counters	No	Yes	Yes
IPv4 routes	256 KB entries	256 KB entries	1 million entries
NetFlow entries	128 KB	128 KB	256 KB*

* Check software release notes

Product Numbers

Table 3 shows part numbers and descriptions for the DFC3B and DFC3BXL.

Table 3. DFC3B and DFC3BXL Part Numbers and Descriptions

Cisco Product Part Number	Description
WS-F6700-DFC3B	Distributed forwarding card for 6700 Series line cards with 256 MB DRAM as default
WS-F6700-DFC3BXL	Distributed forwarding card for 6700 Series line cards with 1 GB DRAM as default

FCS Schedule and Lead Time

- Available for order: August 18, 2004
- FCS: August 23, 2004
- Lead Time: 4 weeks

Minimum Software Requirements

Table 4 shows the Cisco IOS® Software minimum requirements for the DFC3B and DFC3BXL.

Table 4. Cisco IOS Software Minimum Requirements

Cisco Product Part Number	Cisco IOS Software Release
WS-F6700-DFC3B	12.2(18)SXD and later
WS-F6700-DFC3BXL	12.2(18)SXD and later

Additional Resources

Cisco Catalyst 6500 Series 10 Gigabit Ethernet Modules data sheet:

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps708/product_data_sheet09186a00801dce34.html.

Cisco Catalyst 6500 Series 10/100 and 10/100/1000 Ethernet Interface Modules data sheet:

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps708/product_data_sheet0900aecd8017376e.html.




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