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PowerConnect B-DCX-4S Core Switch Blade (CR4S-8)

Replacement Procedure

Supporting PowerConnect B-DCX-4S Backbone

53-1001801-01



Notes, Cautions, and Warnings

NOTE

A NOTE indicates important information that helps you make better use of your computer.



CAUTION

See the safety and regulatory information that shipped with your system. For additional regulatory information, see the Regulatory Compliance Homepage on www.dell.com at the following location: www.dell.com/regulatory_compliance.



CAUTION

A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



DANGER

A DANGER indicates a potential for property damage, personal injury, or death.

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Regulatory Model Codes: Brocade DCX-4S, Brocade DCX

In this guide

- ESD precautions 3
- Installing a PowerConnect B-DCX-4S Core Switch Blade (CR4S-8) 3
- Time required 3
- Items required 3
- Verifying the necessity of replacement 3
- Removing a core switch blade 4
- Replacing a core switch blade 5

ESD precautions

The PowerConnect B-DCX-4S contains electrostatic discharge (ESD) sensitive FRUs. When working with any PowerConnect B-DCX-4S FRU, use correct ESD procedures.

- Wear a wrist grounding strap connected to chassis ground (if the PowerConnect B-DCX-4S is plugged in) or a bench ground.
- Store ESD-sensitive components in antistatic packaging.

Installing a PowerConnect B-DCX-4S Core Switch Blade (CR4S-8)

This document describes how to remove and replace a core switch blade. The PowerConnect B-DCX-4S has two core switch blades: one in slot 3 and one in slot 6.

Time required

The replacement procedure for the chassis door takes less than five minutes.

Items required

- ESD (electrostatic discharge) grounding strap
- Phillips #2 screwdriver
- Replacement core switch blade (PowerConnect B-DCX-4S requires the CR4S-8 core switch blade)

Verifying the necessity of replacement

Confirm that you need to replace the core switch blade before continuing. The following events might indicate that a core switch blade is faulty:

- The status LED on the core switch blade is lit amber, or the power LED is not lit.
- The **slotShow** command does not show that the core switch blade is enabled.
- The **haShow** command indicates an error.

- Any of the following messages display in the error log:
 - “Slot unknown” message relating to a core switch blade slot.
 - Core switch blade errors or I²C timeouts.
 - FRU: FRU_FAULTY messages for a core switch blade.
 - Configuration loader messages or “Sys PCI config” messages.
 - Generic system driver messages (“FABSYS”).
 - Platform system driver messages (“Platform”).
 - EM messages that indicate a problem with a core switch blade.
 - Function fail messages for the core switch blade master.

For more information about error messages, refer to the *Fabric OS Message Reference*.

Removing a core switch blade

The PowerConnect B-DCX-4S continues to operate while a core switch blade is being replaced.

ATTENTION

Follow ESD precautions (“[ESD precautions](#)”).

NOTE

The CR4S-8 blade is compatible only with the PowerConnect B-DCX-4S.

1. Remove the chassis door (see *DCX-4S Chassis Door Replacement Procedure*).
2. Power off the blade by sliding the slider switch in the left ejector to the right to the off position ([Figure 1](#)).
3. Disconnect cables from the faulty core switch blade.
4. Unscrew the thumb screw from both ejectors using the Phillips screwdriver.
5. Lever open both ejector handles simultaneously to approximately 45 degrees and pull the core switch blade out of the chassis ([Figure 1](#)).

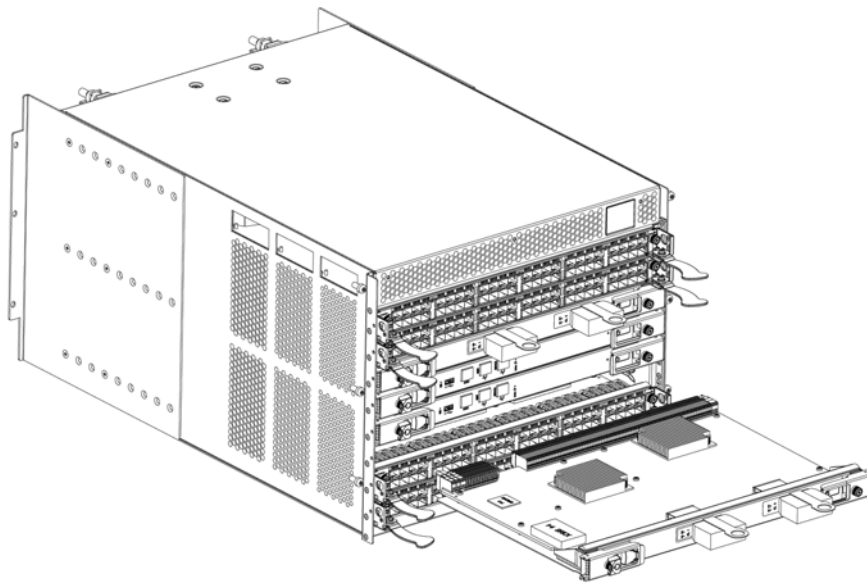


FIGURE 1 Core switch blade (CR4S-8)

Replacing a core switch blade

ATTENTION

Follow ESD precautions ([“ESD precautions”](#)).

1. Open the ejector handles to approximately 45 degrees; then, orient the CR blade so that the handles are toward you and the flat metal side is on the bottom.
2. Align the flat metal side of the core switch blade inside the left and right blade guides in the slot; then, slide the core switch blade into the slot until it is firmly seated.
3. Tighten the thumb screw inside each handle using the Phillips screwdriver.
4. Turn the core switch blade on by sliding the ON/OFF switch in the left handle to the left, to cover the thumb screw.
5. Verify that the power LED is green (might require a few seconds). If not, ensure that the core switch blade has power and is firmly seated and that the ejectors are in the locked position.
6. Connect to the new core switch blade.
7. Pack the faulty core switch blade in the packaging provided with the new core switch blade, and contact the PowerConnect B-DCX-4S supplier to determine the return procedure.
8. Replace the chassis door (see *DCX-4S Chassis Door Replacement Procedure*).

