Quantum Scalar i500:
Ethernet Expansion Blade Replacement

The Ethernet Expansion blade (see Figure 1) facilitates direct Ethernet connectivity between HP LTO-5 and LTO-6 Fibre Channel tape drives and the Scalar® i500 library’s internal Ethernet via the library control blade.

Figure 1  The Ethernet Expansion Blade Within the Library
To replace the Ethernet Expansion blade, refer to the following sections:

- Removing an Ethernet Expansion Blade on page 2
- Replacing an Ethernet Expansion Blade on page 3

## Removing an Ethernet Expansion Blade

**Note:** If you are replacing an Ethernet Expansion blade in the same location, you do not need to perform a “remove” operation via the Web client, as you would if you were permanently removing or relocating the Ethernet Expansion blade. For more information about permanently removing or relocating an Ethernet Expansion blade, see the Quantum Scalar i500 User’s Guide.

1. Save the library configuration:
   a. From the Web client, select **Tools > Save/Restore Configuration**.
   b. Select **Save System Configuration**, and click **Apply**.

2. Disconnect the Ethernet cables from the Ethernet Expansion blade (see Figure 1 on page 1), and label the cables so that you can reconnect them to the correct ports of the new blade.

3. Lift the latch hooks out of the lock position and push them up (see Figure 2). You will feel the blade unplug from the library’s backplane.
Replacing an Ethernet Expansion Blade

These instructions explain how to install the replacement blade in the library.

1. Remove the new Ethernet Expansion blade from the protective anti-static bag.

2. Press up and out to open the latch hooks on each side of the blade. Hold the Ethernet Expansion blade upright, with the latch hooks on the left side, and the status LEDs at the bottom (see Figure 2 on page 3).

3. Carefully align the Ethernet Expansion blade with the guide slots in the bay.

   **Caution:** Forcing the blade into the bay can cause the pins to bend.

4. Evenly apply pressure to both sides of the blade and slide it into the expansion module until the latch hooks begin to move toward the middle of the blade. Push the latch hooks toward the middle of the blade and into the locked position. You will feel the blade pins connect with the expansion module’s backplane as the blade locks into place.
4 Replacing an Ethernet Expansion Blade

The status LEDs on the Ethernet Expansion blade should be as follows: The blue LED should blink once every 10 seconds, indicating the blade is powered on. The green LED should blink once per second, indicating the blade’s processor is working normally. The amber LED should be off. If the LEDs are not blinking properly, reseat the blade.

**Caution:** Be sure the cover plate is installed over the empty bay to the right of the Ethernet Expansion blade. If the cover plate next to an Ethernet Expansion blade is not installed, Ethernet Expansion blade temperature errors will occur.

5 Reconnect the cables in the same position as with the blade you just removed.

6 Verify that the Ethernet Expansion blade is in the “Ready” state using one of the following methods:
   • Check the LEDs on the Ethernet Expansion blade.
     The green LED should blink once per second, the blue LED should blink once every 10 seconds, and the amber LED should be off.
   • From the library Web client, complete the following steps:
     a Select **Tools > Diagnostics** to enter library diagnostics.
     If a message warns you that entering diagnostics will log out all other users of the same or lower privilege level, click **OK** to agree to log all other users out.
     The diagnostics menu bar is displayed.
     b Select **Drives > EE Blade Control**.
     A message warns you that power cycling an Ethernet Expansion blade may cause key exchange failures if FIPS is enabled.
     c Click **OK** to proceed.
     The **Diagnostics - Ethernet Expansion Blade Control** screen is displayed.
     d Check the **Status** column for the Ethernet Expansion blade to be sure it says “Ready” (see Figure 3 on page 4).

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**Figure 3** Ethernet Expansion Blade Control

<table>
<thead>
<tr>
<th>EE Blade</th>
<th>Status</th>
<th>EE Blade Power</th>
<th>Remove</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Ready</td>
<td>Cycle</td>
<td>Remove</td>
</tr>
<tr>
<td>-1.2</td>
<td>Ready</td>
<td>Cycle</td>
<td>Remove</td>
</tr>
<tr>
<td>3.2</td>
<td>Ready</td>
<td>Cycle</td>
<td>Remove</td>
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