

# Attaching the Sun StorEdge™ 5210 NAS and Expansion Units

If you are using the Sun StorEdge 5210 NAS with one or more expansion units, the systems must be fully connected before powering them up.

**Caution** — always power up the expansion unit prior to powering up the Sun StorEdge 5210 NAS.

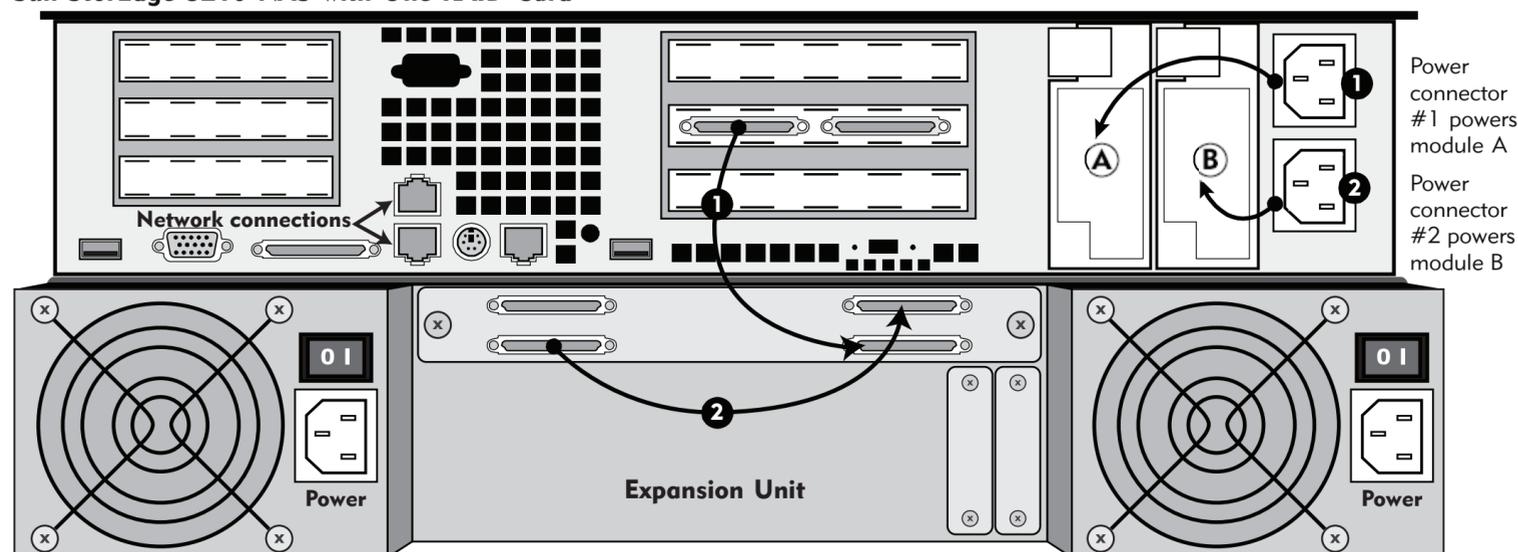
## Connecting a Single Expansion Unit to the Sun StorEdge 5210 NAS

If you are connecting two or three expansion units, please refer to instructions on the back of this poster.

**Caution** — connect all SCSI cables, power cables, and network cables before powering up the systems. Always power up the expansion units prior to powering up the NAS head.

**Note:** Once configured as a pair, a Sun StorEdge 5210 NAS and 5210 expansion unit must be kept as a pair—switching an expansion unit to another NAS head will prevent normal system operation.

### Sun StorEdge 5210 NAS with One RAID Card



The Sun StorEdge 5210 NAS and expansion unit connect through a pair of SCSI cables and ports. The left SCSI connector on the Sun StorEdge 5210 NAS connects to the bottom right SCSI connector on the EU (1). The bottom left SCSI connector on the expansion unit connects to its top right SCSI connector (2), as shown in the above illustration.

On the expansion unit, be sure the power switches are off. Then insert the two power cables into the two power connectors and connect them to an AC power source. Turn on the power switches. All front panel LEDs should turn solid green.

**Caution** — when you power off the expansion unit, wait five seconds before you power it back on. If you power the expansion unit off and on too quickly, unexpected results may occur.

On the NAS head, be sure the front power button (behind the front panel) is in the off position. Check that the network cables are securely connected between the unit and the network. Insert the two power cables into the two power connectors and connect them to an AC power source. Press the power button.

The Configuration Wizard will start automatically.

Refer to the *Sun StorEdge 5210 Hardware Installation, Configuration, and User Guide* for more detail on connecting and powering up.

## Configuring 5210 Expansion Unit RAID Sets

After answering all the questions asked by the Configuration Wizard, the Sun StorEdge 5210 NAS will be configured for file sharing using the storage provided by its internal disk drives.

To add the storage capacity provided by the Expansion Unit, open a web browser from a client on the same network. Type the address of the Sun StorEdge 5210 NAS in the address/location field to access the Web Administrator. Then perform the following steps:

- In the navigation panel, select RAID > Manage RAID.**  
Both the Sun StorEdge 5210 NAS and expansion unit storage should be displayed and the 'Unconfigured' Capacity should be approximately 1680 GB for one expansion unit, 3360 GB for two expansion units, and 5040 GB for three expansion units.
- Click Add LUN to open the Add LUN dialog box.**  
Selected drives are highlighted in blue, unselected drives in grey.
- Select 6 drives from the expansion unit (bottom box). Make sure only 6 drives are highlighted in blue.**  
Recommended: select 6 drives, column 1 and column 2.
- Verify fields are filled in as follows:**
  - RAID Level: RAID 5
  - Controller: 0
  - Select "New Volume", add name "ch2vol02"
- Click Apply. (Progress window should briefly open "Adding Lun.")**  
(Status for dac1d010: "Processing Add LUN", "Making file system") The RAID volume will initialize in the background for several hours. After it begins, you can perform other NAS management tasks, but cannot initiate another RAID operation until the current one completes.
- Verify dac1d010 Status is: "Online" and RAID5 Capacity is 700025 MB**
- Click Add LUN.**
- Select 5 drives from the expansion unit (bottom box). Make sure only 5 drives are highlighted in blue.**  
Recommended: select 5 drives, column 3 and column 4 except 3rd row 4th columns.
- Verify fields are filled in as follows:**
  - RAID Level: RAID 5
  - Controller: 0
  - Select "New Volume", add name "ch2vol03"
- Click Apply. (Progress window should briefly open "Adding Lun.")**  
(Status for dac1d020: "Processing Add LUN", "Making file system") The RAID volume will initialize in the background for several hours. After it begins, you can perform other NAS management tasks, but cannot initiate another RAID operation until the current one completes.
- Verify dac1d010 Status is: "Online" and RAID5 Capacity is 560020 MB.**
- Click Add HS to open the Add Hot Spare dialog box.**
- Select 12th drive in expansion unit (4th column, 3rd row).**
- Click Apply.**
- Verify Hotspare Status is: "Online". Capacity is 140005 MB.**
- For any additional expansion units, repeat Steps 3-14 and select Controller: 1 in Step 4.b.**

The successful RAID setup creates one file storage segment per LUN automatically. You may use these new storage volumes immediately. Additional storage segments from the available LUNs may be added to them now or as needed in the future to increase their capacity.

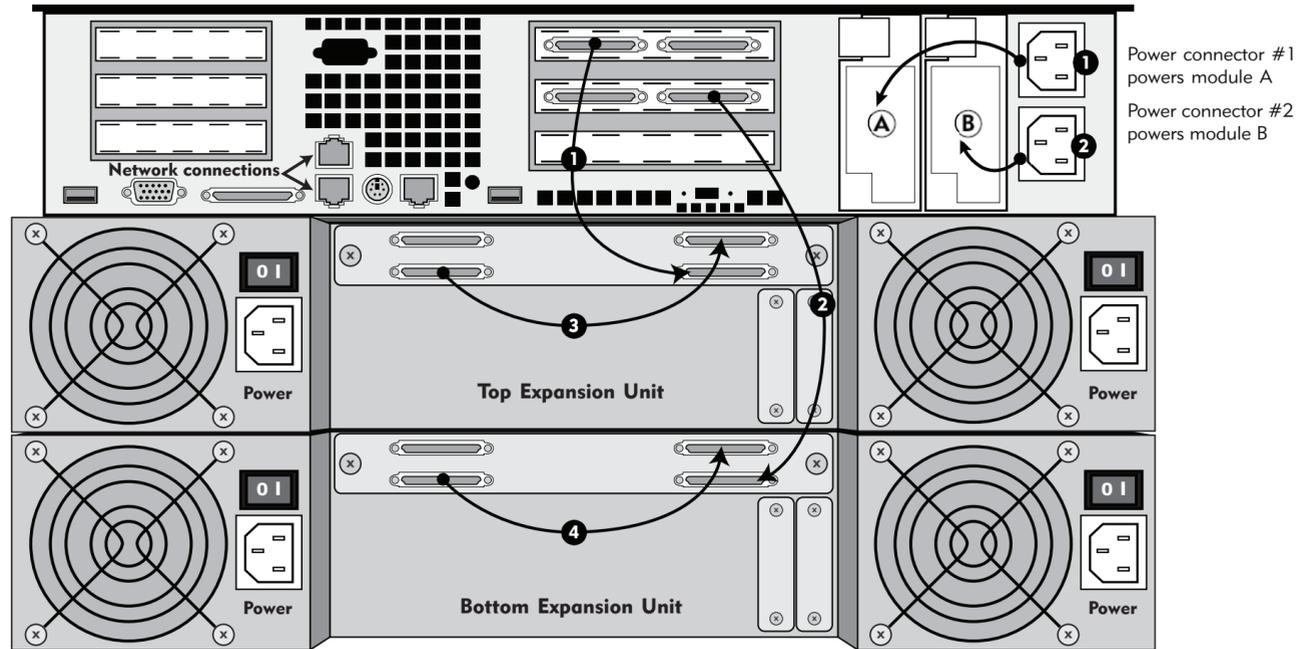
# Attaching Two or Three Expansion Units

If you are connecting a single expansion unit, please refer to instructions on the front of this poster.

## Connecting Two Expansion Units to the Sun StorEdge 5210 NAS

**Caution** — connect all SCSI cables, power cables, and network cables before powering up the systems. Always power up the expansion units prior to powering up the Sun StorEdge 5210 NAS.

### Sun StorEdge 5210 NAS with Two RAID Cards



Connect two expansion units to the NAS head in the following way: The top left SCSI connector on the Sun StorEdge 5210 NAS connects to the bottom right SCSI connector on the top expansion unit (1). The bottom right SCSI connector on the Sun StorEdge 5210 NAS connects to the bottom right SCSI connector on the bottom expansion unit (2). The bottom left SCSI connector on both expansion units connects to its top right SCSI connector (3+4).

On the expansion units, be sure the power switches are off. Then for each expansion unit, insert the two power cables into the two power connectors and connect them to an AC power source. Turn on the power switches. All front panel LEDs should turn solid green.

**Caution** — when you power off the expansion unit, wait five seconds before you power it back on. If you power the expansion unit off and on too quickly, unexpected results may occur.

On the Sun StorEdge 5210 NAS, be sure the front power button (behind the front panel) is in the off position. Check that the network cables are securely connected between the unit and the network. Insert the two power cables into the two power connectors and connect them to an AC power source. Press the power button.

The Configuration Wizard will start automatically. To configure RAID sets, refer to "Configuring 5210 Expansion Unit RAID Sets" on the front of this poster.

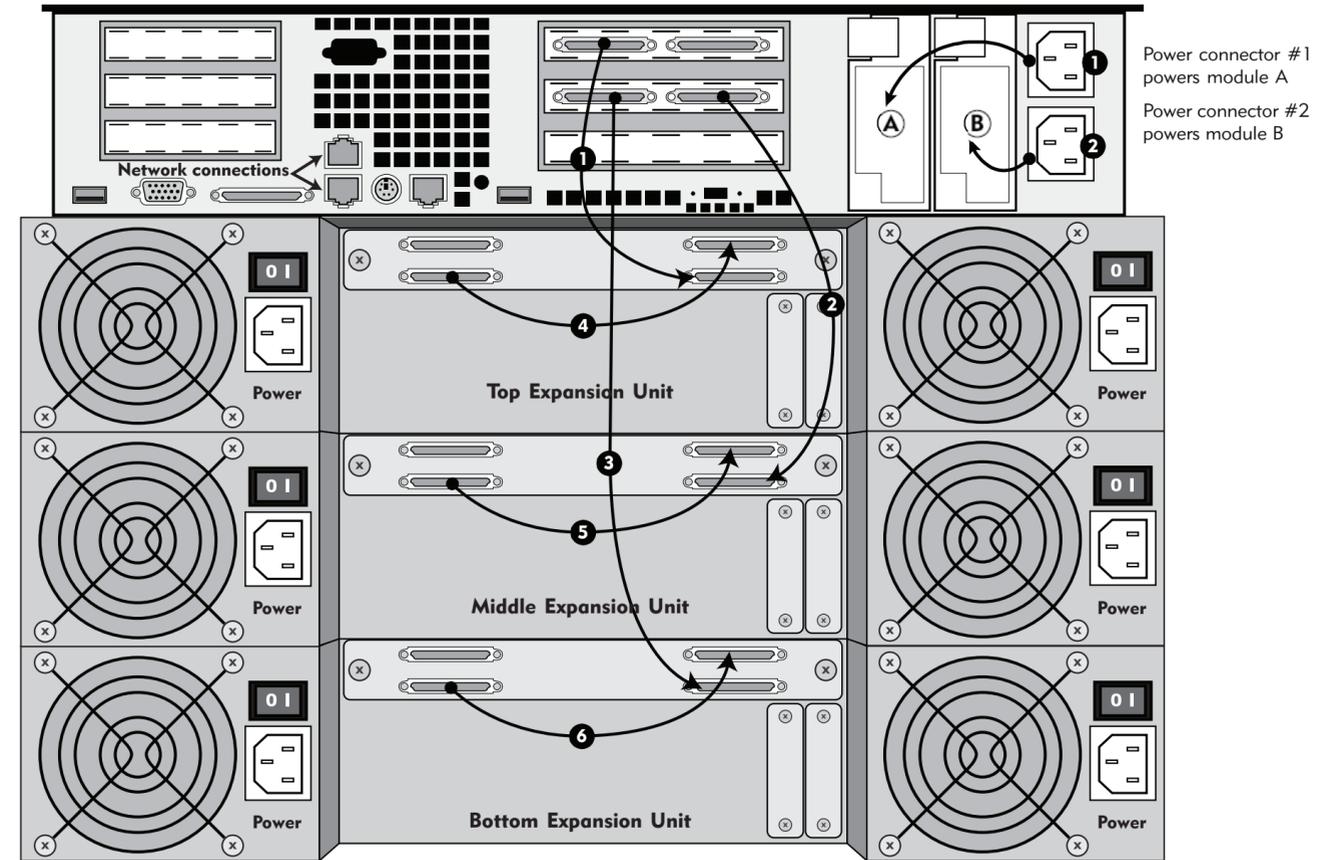
Refer to the *Sun StorEdge 5210 Hardware Installation, Configuration, and User Guide* for more detail on connecting and powering up.

If you are connecting a single expansion unit, please refer to instructions on the front of this poster.

## Connecting Three Expansion Units to the Sun StorEdge 5210 NAS

**Caution** — connect all SCSI cables, power cables, and network cables before powering up the systems. Always power up the expansion units prior to powering up the Sun StorEdge 5210 NAS.

### Sun StorEdge 5210 NAS with Two RAID Cards



Connect three expansion units to the NAS head in the following way: The top left SCSI connector on the Sun StorEdge 5210 NAS connects to the bottom right SCSI connector on the top expansion unit (1). The bottom right SCSI connector on the Sun StorEdge 5210 NAS connects to the bottom right SCSI connector on the middle expansion unit (2). The bottom left SCSI connector on the Sun StorEdge 5210 NAS connects to the bottom right SCSI connector on the bottom expansion unit (3). The bottom left SCSI connector on all three expansion units connects to its top right SCSI connector (4,5+6).

On the expansion units, be sure the power switches are off. Then for each expansion unit, insert the two power cables into the two power connectors and connect them to an AC power source. Turn on the power switches. All front panel LEDs should turn solid green.

**Caution** — when you power off the expansion unit, wait five seconds before you power it back on. If you power the expansion unit off and on too quickly, unexpected results may occur.

On the Sun StorEdge 5210 NAS, be sure the front power button (behind the front panel) is in the off position. Check that the network cables are securely connected between the unit and the network. Insert the two power cables into the two power connectors and connect them to an AC power source. Press the power button.

The Configuration Wizard will start automatically. To configure RAID sets, refer to "Configuring 5210 Expansion Unit RAID Sets" on the front of this poster.

Refer to the *Sun StorEdge 5210 Hardware Installation, Configuration, and User Guide* for more detail on connecting and powering up.