



## Configuring the Storage Array 12

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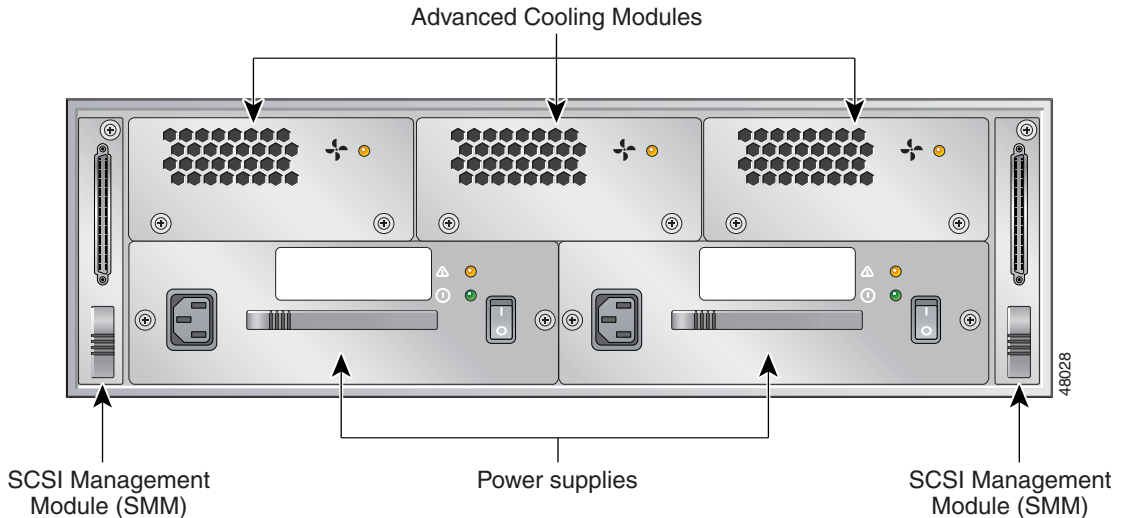
This chapter describes how to configure and set up the Storage Array 12. This chapter also describes the procedure for connecting the Storage Array 12 to a host system.

Each backplane supports 12 disk drives using 80-pin SCA-2 connectors. Two power supplies will provide the power for the system, and cooling is provided by three Advanced Cooling Modules (ACMs).

# SCSI Management Module

There are two I/O slots in the rear of the Storage Array 12 that accommodate the SCSI Management Module (SMM), as shown in Figure 3-1.

**Figure 3-1** Location of I/O Modules



The SMM provides two important functions. First, it acts as an environmental monitoring device, the function of which is described in Chapter 4. Second, it functions as the SCSI I/O port for the Storage Array 12. The two SMMs provide for the connection of a second cable to the hosts in the split-bus configuration, and also provide for redundancy on the SMMs environmental monitoring facility. The SMM has an automatic termination capability that enables and disables termination at the end of the SCSI bus when necessary. No external terminators are required.

# Configurations

Two standard configurations are covered in this guide:

- **Single SCSI bus:** Connected to the host by a single SCSI cable. The Storage Array 12 contains two SMMs.
- **Split SCSI bus:** Connected to the host(s) by two SCSI cables. The Storage Array 12 must contain two SMMs.

## SCSI ID Assignments

The SCSI IDs for the Storage Array 12 are hard set and cannot be changed. The IDs for each disk drive are printed on the front of the Storage Array 12 beside the disk drive. Drive 1 is the drive closest to the key lock. Table 3-1 shows the IDs.

**Table 3-1** *SCSI ID Assignments Table*

	Single SCSI Bus	Split SCSI Bus	
	SCSI ID	Bus 1 SCSI ID	Bus 2 SCSI ID
Drive 1	0	0	—
Drive 2	1	1	—
Drive 3	2	2	—
Drive 4	3	3	—
Drive 5	4	4	—
Drive 6	5	5	—
Drive 7	8	—	8
Drive 8	9	—	9
Drive 9	10	—	10
Drive 10	11	—	11
Drive 11	12	—	12
Drive 12	13	—	13
SMM	15	15	15

# Cabling a Single SCSI Bus Configuration

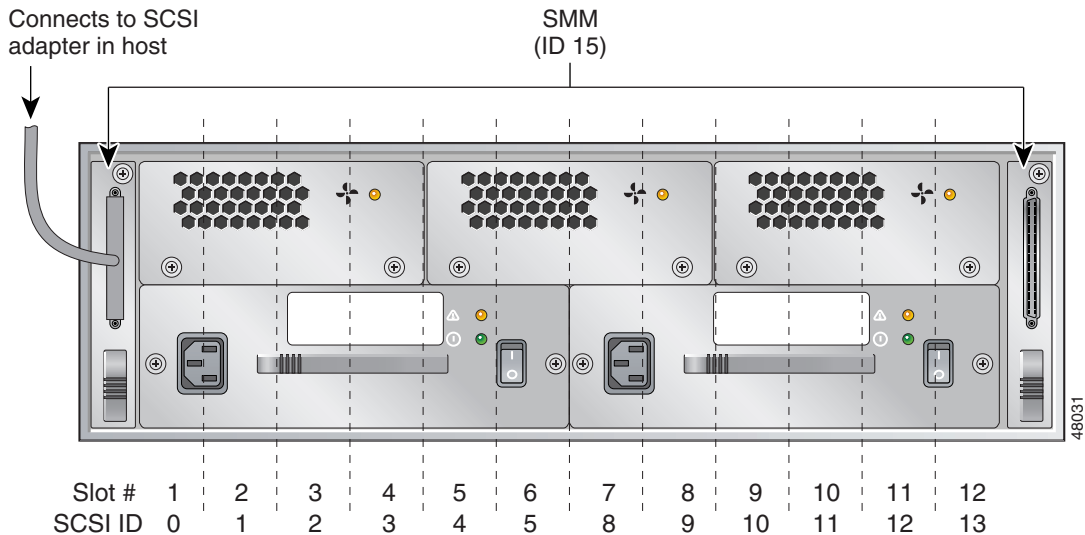

**Note**

You must have either a terminator module or another SMM installed in the second I/O option slot of the Storage Array 12.

To connect the single SCSI bus configuration to your host system, follow this procedure:

- Step 1** Turn off your host system and all devices attached to it.
- Step 2** Connect the SCSI cable provided with the Storage Array 12 to the SMM I/O connector on the rear of the Storage Array 12. (See Figure 3-2.)
- Step 3** Connect the other end of this cable to the SCSI adapter of your host system.

**Figure 3-2** Connecting the Single SCSI Bus Configuration to Your Host



# Cabling a Split SCSI Bus Configuration

**Note**

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You must have an SMM installed in both I/O option slots of the Storage Array 12.

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To connect a split SCSI bus configuration to your host or hosts, follow this procedure:

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- Step 1** Turn off your host system and all devices connected to it.
  - Step 2** Connect one of the two SCSI cables to the I/O connector of the first SMM.
  - Step 3** Connect the other end of this cable to the SCSI adapter of your host system.
  - Step 4** Connect the second SCSI cable to the I/O connector of the second SMM.
  - Step 5** Connect the other end of this cable to the second SCSI adapter of your host system.

**Note**

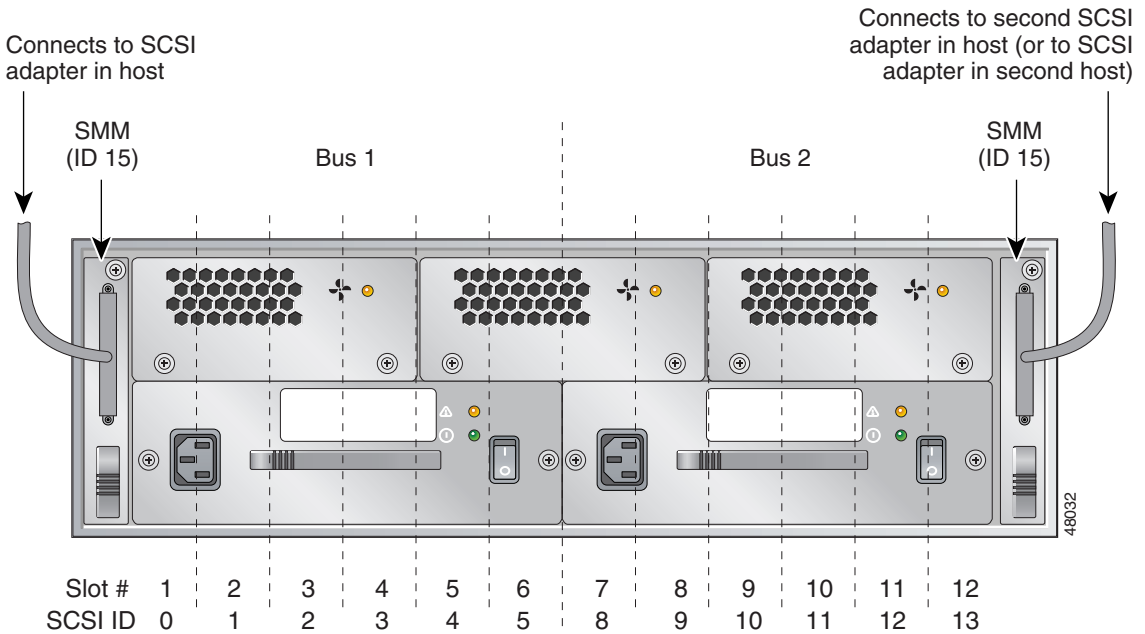
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You can have two SCSI adapters in one host system or, alternatively, you can have two separate host systems.

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## Cabling a Split SCSI Bus Configuration

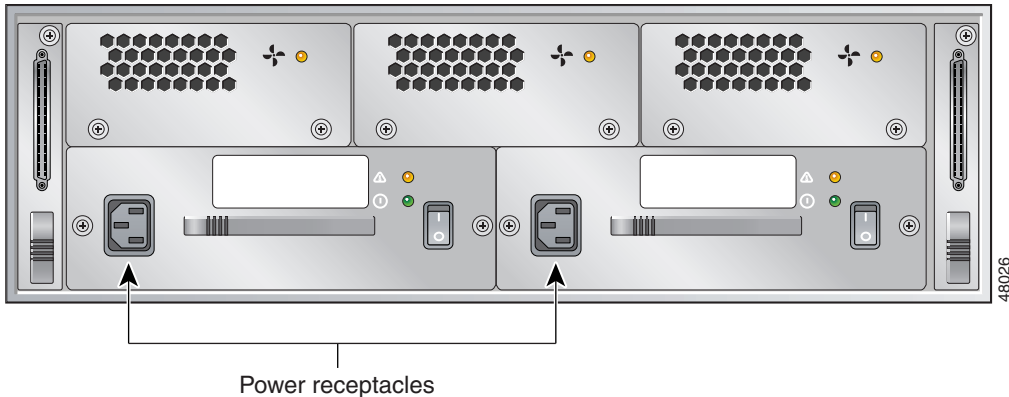
Figure 3-3 Connecting the Split SCSI Bus Configuration to Your Host



# Connecting an AC Power Source

Two AC power receptacles are on the rear of the Storage Array 12, as shown in Figure 3-4 (one for each power supply).

**Figure 3-4** Location of Power Receptacles on the Storage Array 12



If you have a redundant power supply system, you must have two power cords connected to the rear of the Storage Array 12. To connect the power cords, follow this procedure:

- Step 1** Ensure that the power switch on the rear of the Storage Array 12 is in the off position.
- Step 2** Connect both power cords to the Storage Array 12 by inserting them into the power receptacles, shown in Figure 3-4.  
Only one power cord is necessary in nonredundant configurations.
- Step 3** Plug the other end of the power cord into a properly grounded power source.

- Step 4** Ensure that the SCSI cable is connected between the Storage Array 12 and the host system, and then power on the host system.



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**Note** The Storage Array 12 will not power on unless the SCSI cable is connected between the Storage Array 12 and the host system and the host system is powered on.

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- Step 5** Turn on the power switch located on each power supply to power on the system.
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