

Sun Storage 6580 and 6780 Arrays

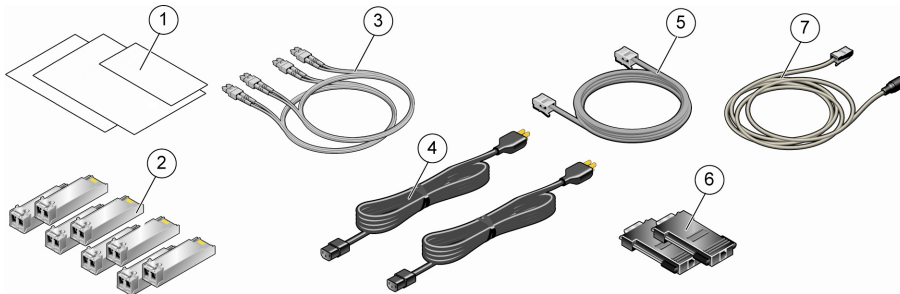
Getting Started Guide for Rack Ready Arrays

This guide provides an overview of the hardware installation process for Oracle's rack ready Sun Storage 6580 and 6780 arrays. For detailed procedures, see the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays*. Additional documentation is listed in the section "[Documentation for This Product](#)" and available at the Oracle documentation web site:

<http://www.oracle.com/technetwork/indexes/documentation/index.html>

Review Ship Kit Contents

FIGURE 1 Ship Kit Items



Controller Tray Ship Kit

- | | | | |
|---|---|---|--|
| 1 | Documentation | 5 | One 6-meter RJ45-RJ45 cable for controller serial port |
| 2 | Eight (or 16) SFP transceivers for host ports | 6 | Two RJ45-DB9 serial adapters |
| 3 | Two 5-meter fibre channel (FC) host cables | 7 | PS2 6-pin DIN to RJ-45 serial cable for service access |
| 4 | Two AC power cords | | |
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Expansion Tray Ship Kit

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|---|---|---|---|
| 1 | Documentation | 3 | Two 5-meter FC cables for intertray connections |
| 2 | Four SFP transceivers for intertray connections | 4 | Two AC power cords |
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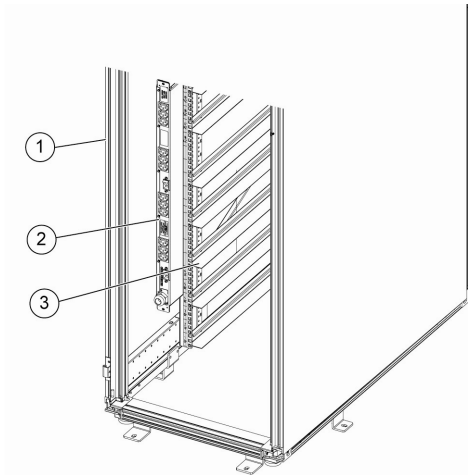
Before You Begin

Review the following documents before starting the installation:

- *Important Safety Information for Sun Hardware Systems*
- *Sun Storage Safety and Compliance Manual*
- *Site Preparation Guide for Sun Storage 6580 and 6780 Arrays*
- *Release Notes for Sun Storage 6580 and 6780 Arrays*

Prepare the Rack

FIGURE 2 Install the PDUs and Rails

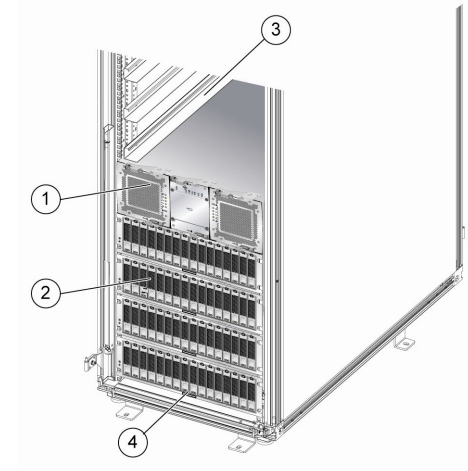


Step	Task
1	Install the Sun Rack II as described in the <i>Sun Rack II User's Guide</i> .
2	Install the PDUs in the Sun Rack II, as described in the <i>Power Distribution Unit Installation Guide for Sun Storage 6580 and 6780 Arrays and Sun StorageTek 2500 and 6000 Array Series</i> .
3	Install the rails for each tray in the Sun Rack II, as described in the <i>Sun Storage Modular Rail Kit Installation Guide</i> .

Note: If you are using a cabinet other than the Sun Rack II, see the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays* for universal rail kit installation instructions.

Install the Controller Tray and Expansion Trays

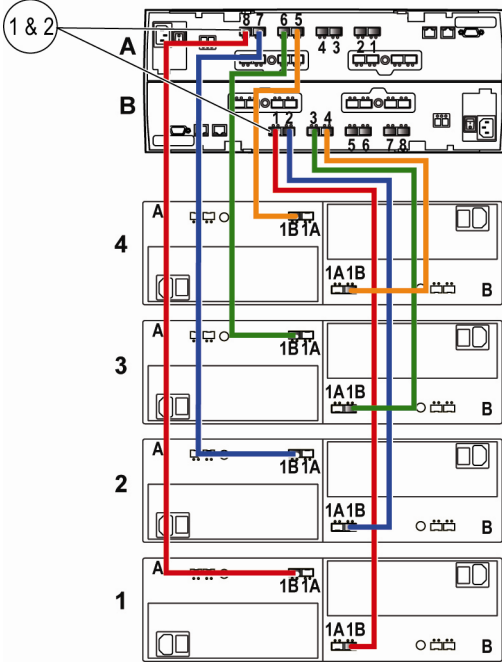
FIGURE 3 Controller Tray and Four Expansion Trays



Step	Task
1	Install the controller tray in the fifth slot from the bottom of the rack.
2	Install the first four expansion trays on the rails located below the controller tray. Install additional expansion trays above the controller tray.
3	Install a pair of static rail restraints (provided with the Sun Rack II) directly above the topmost tray in the array stack.
4	Set the disk tray link rate (located at the lower front of each expansion tray). If the expansion tray has mixed drive speeds (4 Gbits/second and 2 Gbits/second), set the Tray Link Rate switch to 2 Gbits/second.

Connect the Intertray Cables

FIGURE 4 Connect the Controller Tray to the Expansion Trays

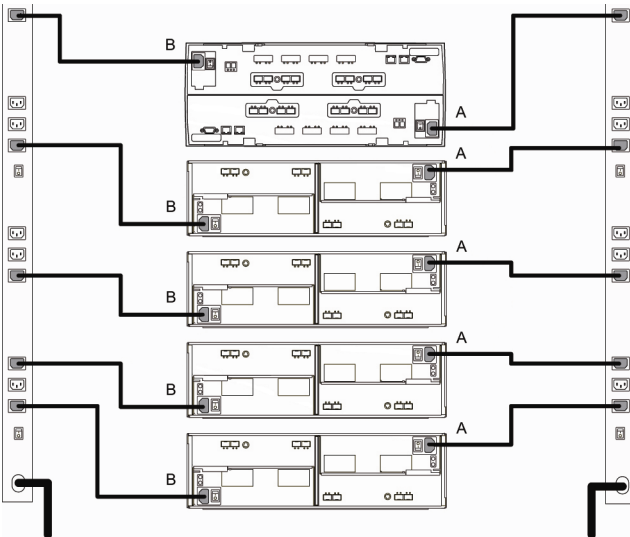


Step	Task
1	Insert an SFP transceiver into each controller drive port and each expansion port you plan to use.
2	Connect an optical FC cable between each SFP transceiver and the appropriate expansion port on each expansion tray.
3	Make sure all connections are firmly seated.

Note: FIGURE 4 shows a configuration consisting of one controller tray and four expansion trays. Other configurations are supported, as described in the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays*.

Connect the Power Cables

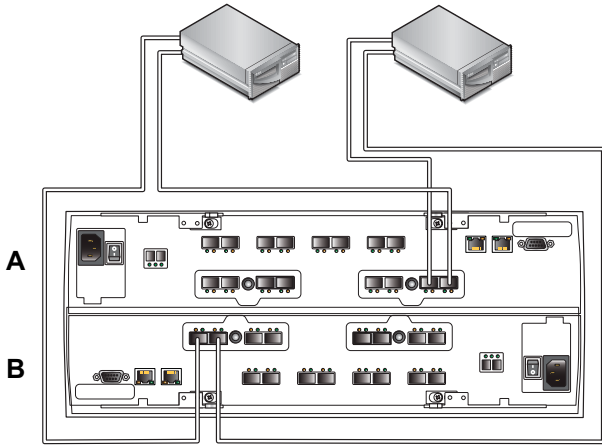
FIGURE 5 Connect the Controller and Expansion Tray Power Supplies to the PDUs



Step	Task
1	Verify that both AC power switches are in the Off position for each tray in the rack.
2	Connect a power cable from each A power supply to an A PDU receptacle.
3	Connect a power cable from each B power supply to a B PDU receptacle.
4	Connect the rack power cables to the external power source.

Connect the Data Hosts

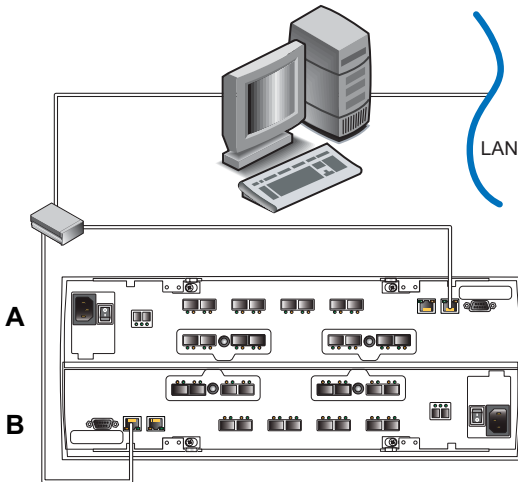
FIGURE 6 Data Host Direct Connections



Step	Task
1	Verify that data host OS requirements are met, as listed in the <i>Release Notes for Sun Storage 6580 and 6780 Arrays</i> .
2	Connect an SFP transceiver and optical FC cable into each controller host port you plan to use. Connect the other end of each cable directly to the host HBA or to an external FC switch.
3	Be sure the proper pairs are matched to ensure failover functionality.
4	Label each cable with information about its connection.
5	Verify that data host HBA drivers and multipath software are installed, as described in the <i>Release Notes for Sun Storage 6580 and 6780 Arrays</i> .

Connect the Management Host

FIGURE 7 Ethernet Port-to-Management Host Connection



Step	Task
1	Connect the Ethernet cables between port 1 of Controller A and port 1 of Controller B to an external Ethernet switch. Note: Ethernet port 2 is reserved for service access.
2	Connect the management host to the Ethernet switch.
3	Connect the Ethernet switch to the LAN infrastructure.

Note: To configure in-band array management, see the information in the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays*.

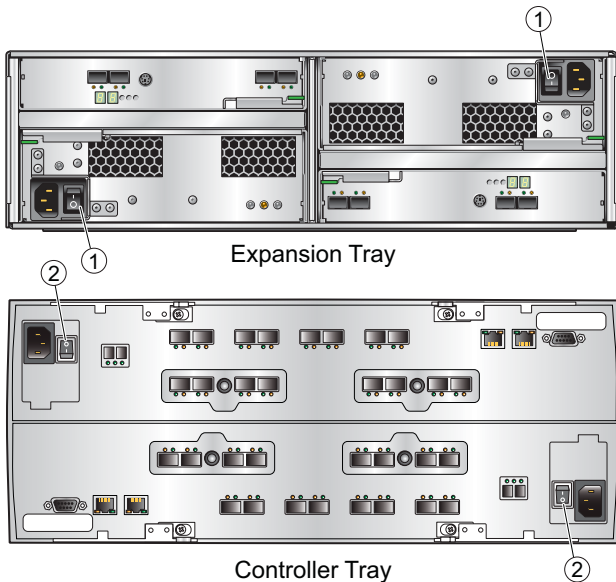
Turn On the Power

During initial power-up, each of the RAID controllers uses DHCP to obtain an IP address. If a DHCP server is not available, you can configure the IP addresses manually as described in the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays*.

The default IP addresses are:

- Controller A: 192.168.128.101
- Controller B: 192.168.128.102

FIGURE 8 Locate Power Switches on Expansion Trays and Controller Tray



Step	Task
1	Place the circuit breaker for the cabinet's power source in the On position. Place the two power switches on the front of each PDU in the On position.
2	Place both power switches (1) at the back of each expansion tray in the On position.
3	Wait until all expansion trays are powered up.
4	Place both power switches (2) at the back of the controller tray in the On position.
5	After the power sequence is complete, check the status of each tray: <ul style="list-style-type: none">• Confirm that the green OK/Power LEDs are steady green, both on the tray and on each drive in the tray.• If all tray and drive OK/Power LEDs are steady green and the amber Service Required LEDs are off, the power-on sequence is complete and no faults have been detected.

Install the Management Host Software

Oracle's Sun Storage Common Array Manager (CAM) software is a storage management environment that supports Oracle's Sun storage products. Download the CAM software and install on the management host, as described in the *Sun Storage Common Array Manager Quick Start Guide*.

Note – The Sun Storage 6580 and 6780 arrays require controller firmware version 7.50.13.xx (or higher), included with CAM 6.4.1 (or higher).

Documentation for This Product

- Additional documentation for the Sun Storage 6580 and 6780 arrays is available at:
<http://www.oracle.com/technetwork/documentation/oracle-unified-ss-193371.html>
- Documentation for the Sun Storage Common Array Manager software is available at:
<http://www.oracle.com/technetwork/documentation/disk-device-194280.html>

Task	Documentation
Review safety information	<i>Important Safety Information for Sun Hardware Systems</i> <i>Sun Storage Regulatory and Safety Compliance Manual</i>
Review known issues and workarounds	<i>Release Notes for Sun Storage 6580 and 6780 Arrays</i>
Prepare the site	<i>Site Preparation Guide for Sun Storage 6580 and 6780 Arrays</i>
Install the cabinet	<i>Sun Rack II User's Guide</i>
Install the rails for each tray	<i>Sun Storage Modular Rail Kit Installation Guide</i>
Install the power distribution units	<i>Sun Cabinet Power Distribution Unit (PDU) Installation Guide</i>
Install the array	<i>Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays</i>
Install the management software	<i>Sun Storage Common Array Manager Installation Guide</i>

Oracle Contact Information

Documentation	http://www.oracle.com/technetwork/indexes/documentation/index.html
Support	https://support.oracle.com
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