

# Sun Storage 6580 and 6780 Arrays

## Getting Started Guide for Rack Mounted Arrays

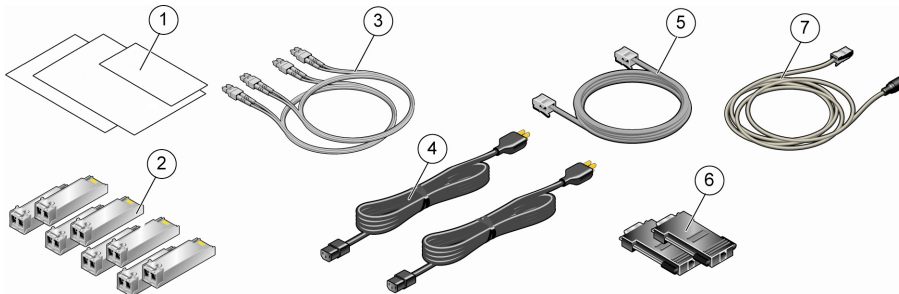
This guide provides an overview of the installation procedure for Oracle's pre-assembled Sun Storage 6580 and 6780 arrays. For details, see the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays*.

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



- |   |   |
|---|---|
| 1. Documentation                                | 5. One 6-meter RJ45 -RJ45 serial cable for controller serial port |
| 2. Eight (or 16) SFPs for host port connections | 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 Oracle service access  |
| 4. Two AC power cords                           |   |

## Before You Begin

Review the following documents before starting the installation:

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

# Move the System Into Position

The Sun Storage 6580 and 6780 arrays are fully assembled and cabled according to the configuration you purchased.

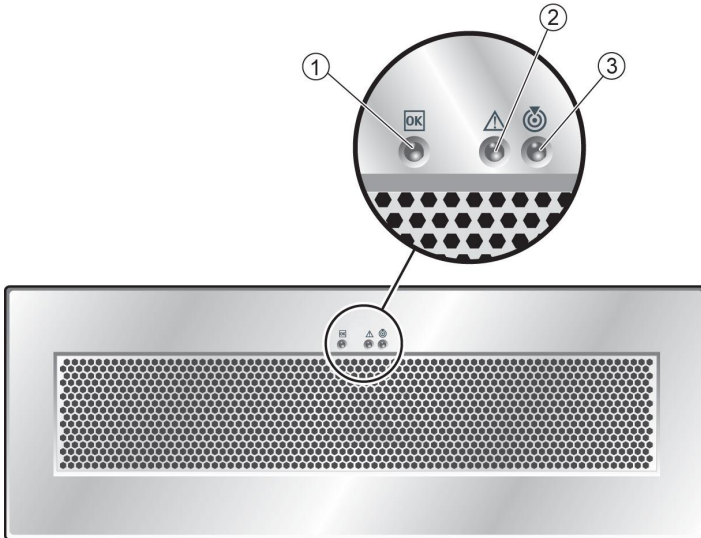
FIGURE 2 Sun Storage 6580 or 6780 Array



Step	Task
1.	Move the system rack to the installation site (see the <i>Site Preparation Guide for Sun Storage 6580 and 6780 Arrays</i> ).
2.	Stabilize the system rack by adjusting the leveling feet located at the bottom of each corner of the rack.
3.	Attach a ground cable to one of the attachment points located at the bottom rear of the frame.

# Review Controller Tray LEDs

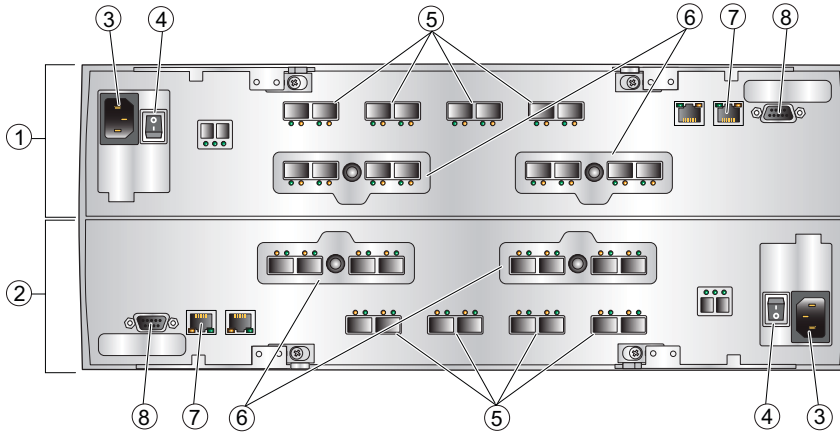
FIGURE 3 Controller Tray LEDs (Front View)



Callout	Description
1.	Power-on LED
2.	Service Action Required LED
3.	Locate Indicator LED

# Review Controller Tray Ports and Switch Locations (Rear View)

FIGURE 4 Controller Tray Ports and Switches (Rear View)

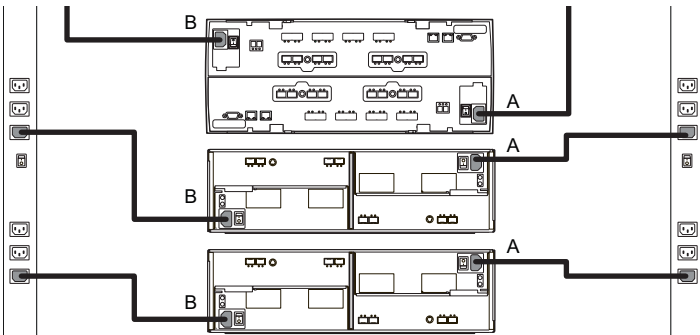


- |                                 |   |
|---------------------------------|---|
| 1. Controller A (top, inverted) | 5. Drive ports (connect to disk expansion trays)  |
| 2. Controller B (bottom)        | 6. Host ports   |
| 3. AC input                     | 7. Ethernet port 1 (for out-of-band array management)<br>Ethernet port 2 (reserved for Oracle service access) |
| 4. AC power switch              | 8. Serial ports   |

## Review Physical Connections

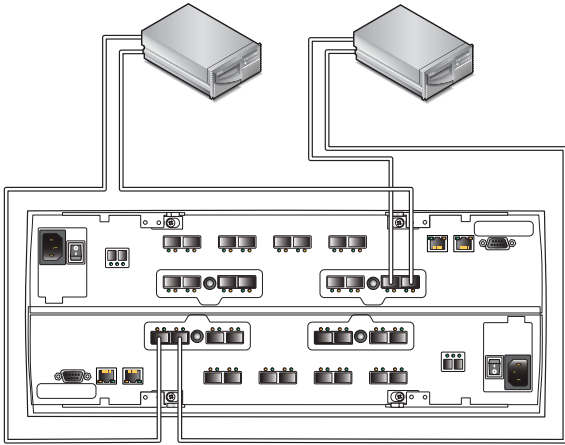
1. Review intertray cabling for your configuration (see diagrams in the Hardware Installation Guide).
2. Verify that both AC power switches (FIGURE 4) are off for each tray in the rack.
3. Verify that each tray's A and B power supply is connected to the corresponding PDU (FIGURE 5).
4. Make sure all connections are firmly seated.
5. Connect the rack power cables to the external power source.

FIGURE 5 Rack Power Connections



# Connect Data Hosts

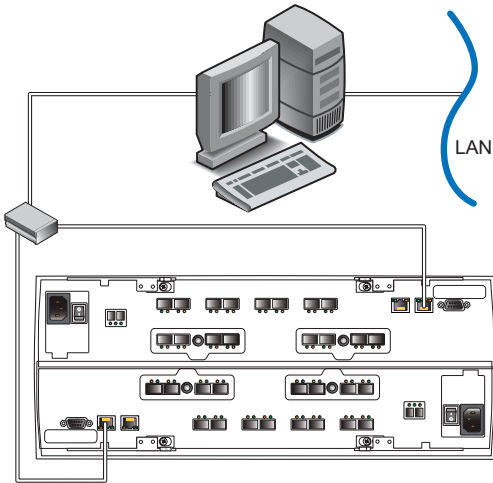
FIGURE 6 Data Host Direct Connections



Step	Task
1.	Verify that data host OS requirements are met (see 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 (see 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 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:** If you want to configure in-band array management, see the Hardware Installation Guide.

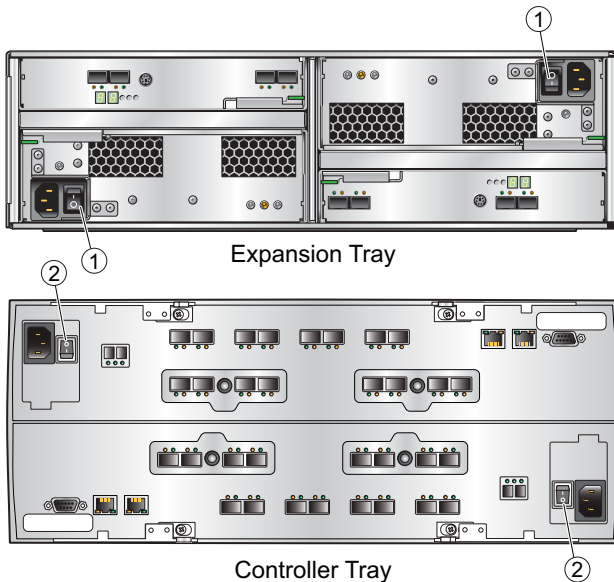
## Turn On the Power

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.

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"><li>• Confirm that the green OK/Power LEDs are steady green, both on the tray and on each drive in the tray.</li><li>• 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.</li></ul>



## 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).

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## 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>

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Task	Documentation
Review safety information	<i>Sun Storage Regulatory and Safety Compliance Manual</i> <i>Important Safety Information for Sun Hardware Systems</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 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>

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## Oracle Contact Information

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Documentation	<a href="http://www.oracle.com/technetwork/indexes/documentation/index.html">http://www.oracle.com/technetwork/indexes/documentation/index.html</a>
Support	<a href="https://support.oracle.com">https://support.oracle.com</a>
Training	<a href="https://education.oracle.com">https://education.oracle.com</a>

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