

# Sun Storage 6180 Array

## Getting Started Guide

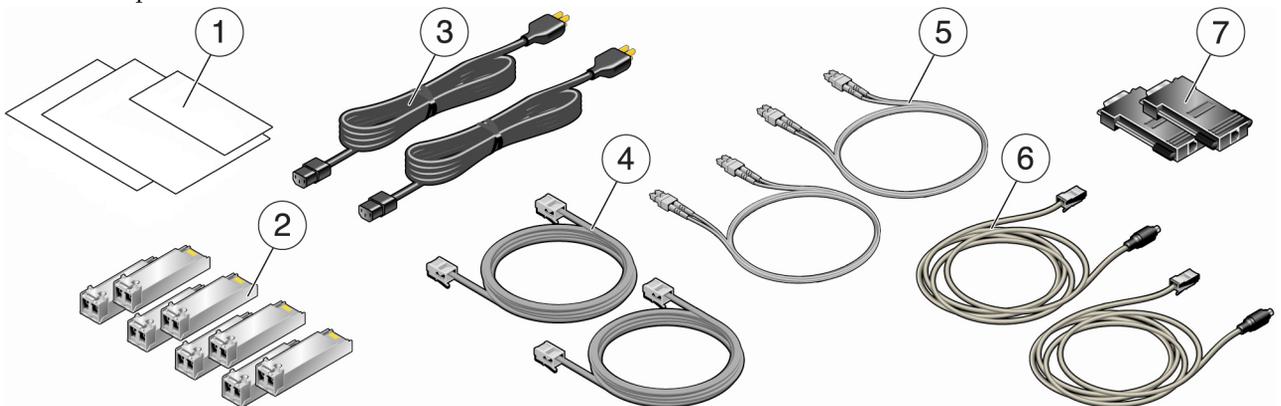
This guide provides an overview of the hardware installation process for Oracle's Sun Storage 6180 array. For detailed information, have the *Sun Storage 6180 Array Hardware Installation Guide* available as you go through the steps in this document.

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. | Two Fibre Channel (FC) cables  |
| 2 | Four or Eight Small Form-factor Pluggables (SFPs) | 6. | Two PS2 6-pin DIN to RJ45 serial cables (for service access)           |
| 3 | Power cables*                                     | 7. | Two RJ45-DB9 serial adapters (one straight through and one null modem) |
| 4 | Two RJ45-RJ45 Ethernet cables                     |    |  |

\* AC power cables are shipped in a carton separate from the array unit. Although not pictured, DC power cables are included for DC units.

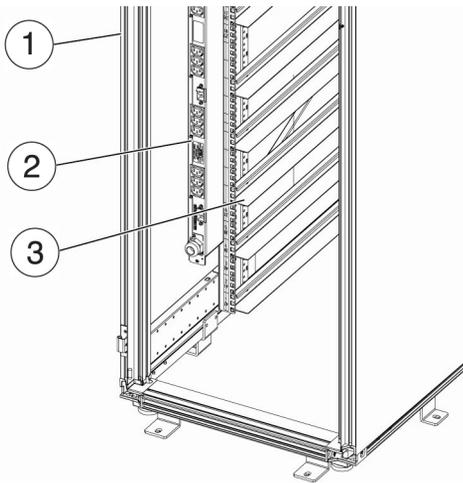
## Before You Begin

Prior to starting installation, record the media access control (MAC) address for each controller (located on labels affixed to the controller tray top and/or front), as MAC addresses are required during the installation and set-up process and may not be accessible after installation is complete. Then, review the following documents:

- *Important Safety Information for Sun Hardware Systems*
- *Sun Storage 6180 Array Site Preparation Guide*
- *Sun Storage 6180 Safety and Compliance Manual*
- *Sun Storage 6180 Array Release Notes*

## Prepare the Rack

FIGURE 2 Install the PDUs and Rails



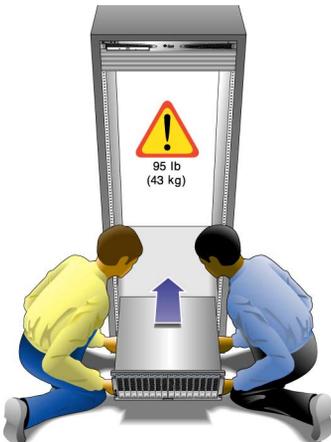
Step	Task
1.	Install the Sun Rack II as described in the <i>Sun Rack II User's Guide</i> .
2.	Install the PDUs in the Sun Rack II, as described in the <i>Sun Cabinet Power Distribution Unit (PDU) Installation Guide</i> .
3.	Install the rails for each tray in the Sun Rack II, as described in the <i>Sun Storage Modular Rail Kit Installation Guide</i> .

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

## Install the Controller Tray and Expansion Trays

Each tray is installed in an empty 3RU slot in the cabinet. Consult the Installation Guide for further details.

FIGURE 3 Installing the Tray

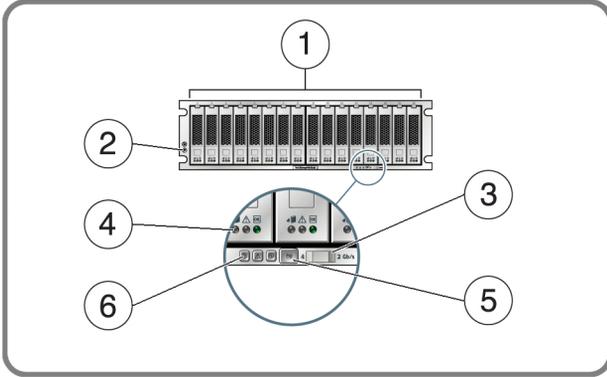


Step	Task
1.	Using two people, carefully lift and rest the tray on the bottom ledge of the left and right rails. <b>Caution:</b> Tray equipment can weight up to 95 pounds.
2.	Carefully slide the tray into the cabinet until the front mounting flanges on the tray touch the vertical face of the cabinet.
3.	Install and tighten four screws (two per side, customer-supplied) to secure the tray to the cabinet front. <b>Note:</b> Screw size will depend on the specific rack used.
4.	Install and tighten two 6-32 screws (one per side, customer-supplied) at the back of the tray to secure the back of the tray to the cabinet.
5.	Verify that the controller power switches and cabinet circuit breakers are turned off. Then, connect each tray power supply to separate cabinet power sources.

# Review Controller Tray Front and Rear Panels

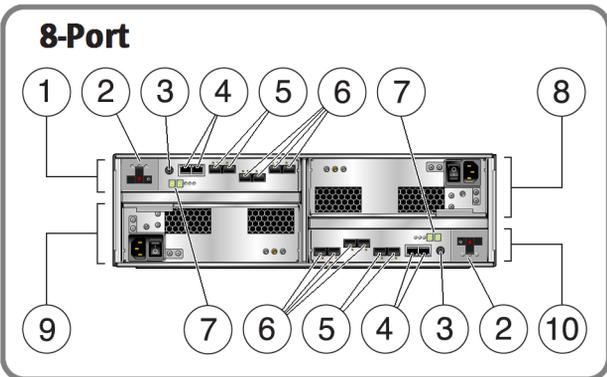
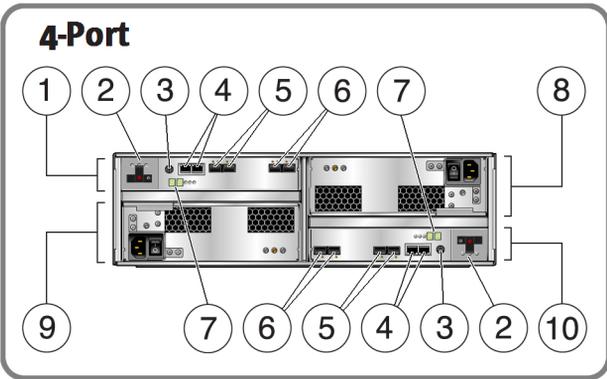
FIGURE 4 shows the locations of LEDs and components on the controller tray front panel. FIGURE 5 shows the locations of ports and components on the controller tray rear panel.

FIGURE 4 Controller Tray Front Panel



Callout	Description
1.	Disk drives
2.	Grounding strap connector
3.	Rate select switch
4.	Drive LEDs
5.	Alarm cancel button
6.	Tray LEDs

FIGURE 5 Controller Tray Rear Panel

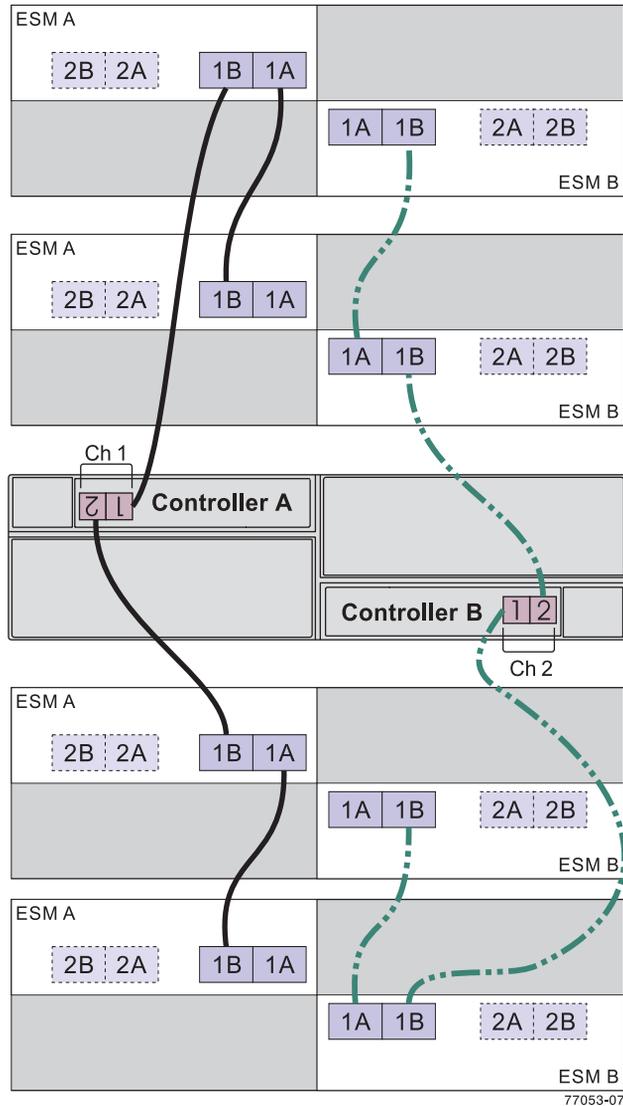


Callout	Description
1.	Controller A
2.	Battery backup compartment
3.	Serial port (for diagnostics)
4.	Ethernet management host ports
5.	FC expansion ports
6.	FC data host ports
7.	ID/Diag display (Seven-segment readout)
8.	Power supply A
9.	Power supply B
10.	Controller B

# Connect the Intertray Cables

FIGURE 6 shows a configuration consisting of one controller tray and four expansion trays. Other configurations are supported, as described in the Installation Guide. **Note:** In the below figure, black cables represent Drive Channel 1 (Controller A), and green cables represent Drive Channel 2 (Controller B).

FIGURE 6 Connect the Controller Tray to the Expansion Trays

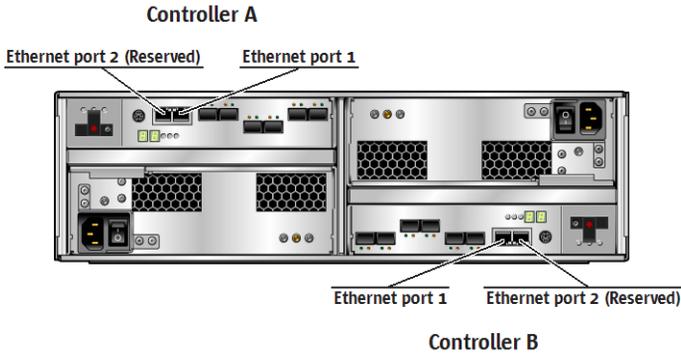


Drive Channel 1 (Ch 1)  
 Drive Channel 2 (Ch 2)

# Prepare Management Connections

FIGURE 7 shows the ports used for an out-of-band network connection to a management host. The following procedure describes a management host LAN connection. Other connection options are described in the Installation Guide.

FIGURE 7 Management Host Connections



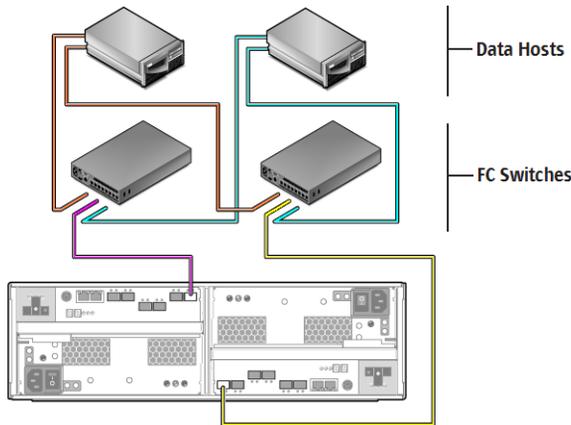
Step	Task
1.	Locate Ethernet port 1 for Controller A and Controller B at the back of the controller tray.
2.	Connect an Ethernet cable to Ethernet port 1 of each controller.
3.	Connect the other end of each Ethernet cable to the LAN on which your management host resides (preferably on the same subnet).

**Note:** To configure in-band array management, see the Installation Guide.

# Connect the Data Hosts

You can connect data hosts to the Sun Storage 6180 Array through FC switches or directly. FIGURE 8 illustrates a connection through FC switches using a single host channel on each controller. More connection options are discussed in the Installation Guide.

FIGURE 8 Data Host Connections



Step	Task
1.	Verify that data host OS requirements are met and that host bus adapter (HBA) drivers and multipath software are installed on the data hosts, as listed in the <i>Sun Storage 6180 Array Release Notes</i> .
2.	Locate the data host ports at the back of the controller tray and install an SFP into the Channel 1 port for each controller.
3.	Connect each fiber-optic cable to the host ports of Controller A and Controller B.
4.	Connect the other end of each cable to an external switch as shown in FIGURE 8.
5.	Connect the cables from each switch to the HBAs for each data host.

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## Turn on Power and Install Management Host Software

1. Power on the array and configure controller IP addresses per the detailed information in the Installation Guide. Note: IP addresses are auto-configured via DHCP by default, but can be changed manually using each controller's serial port (see [FIGURE 5](#)).
2. Download Sun Storage Common Array Manager software and install on the management host, as described in the *Sun Storage Common Array Manager Quick Start Guide*.

## Documentation for This Product

- Additional documentation for the Sun Storage 6180 array is available at:  
<http://download.oracle.com/docs/cd/E19373-01/index.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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Review safety information	<i>Important Safety Information for Sun Hardware Systems</i> <i>Sun Storage 6180 Safety and Compliance Manual</i>
Review known issues and workarounds	<i>Sun Storage 6180 Array Release Notes</i>
Prepare the site	<i>Sun Storage 6180 Array Site Preparation Guide</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>Sun Storage 6180 Array Hardware Installation Guide</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>
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