IBM

ServeRAID M5016 SAS/SATA Controller for IBM System x Quick Installation Guide

Before using this information and the product it supports, read the *Important Notices and Warranty Information* document that comes with the ServeRAID M5016 SAS/SATA controller.

This *Quick Installation Guide* provides information about installing the ServeRAID M5016 SAS/SATA controller.

Statement 1:

DANGER

Electrical current from power, telephone, and communication cables is hazardous.

To avoid a shock hazard:

- **Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.**
- **Connect all power cords to a properly wired and grounded electrical outlet.**
- **Connect to properly wired outlets any equipment that will be attached to this product.**
- **When possible, use one hand only to connect or disconnect signal cables.**
- **Never turn on any equipment when there is evidence of fire, water, or structural damage.**
- **Disconnect the attached power cords, telecommunications systems, networks, and modems before you open the device covers, unless instructed otherwise in the installation and configuration procedures.**
- **Connect and disconnect cables as described in the following table when installing, moving, or opening covers on this product or attached devices.**
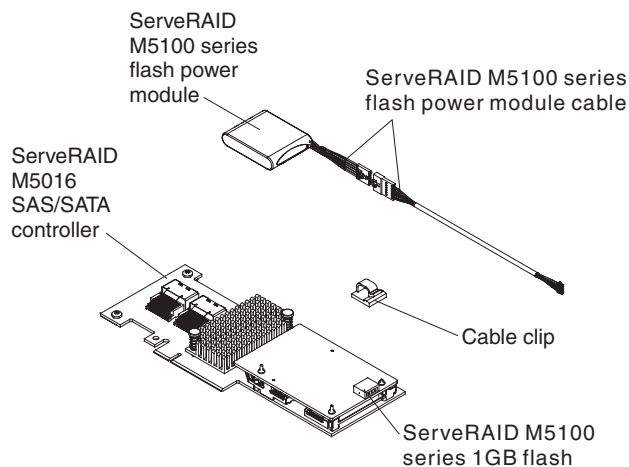
To Connect:	To Disconnect:
1. Turn everything OFF.	1. Turn everything OFF.
2. First, attach all cables to devices.	2. First, remove power cords from outlet.
3. Attach signal cables to connectors.	3. Remove signal cables from connectors.
4. Turn device ON.	4. Remove all cables from devices.

This ServeRAID M5016 SAS/SATA Controller for IBM® System x® option kit contains the following items.

ServeRAID
M5100 series
flash power
module

ServeRAID M5100 series
flash power module cable

ServeRAID
M5016
SAS/SATA
controller

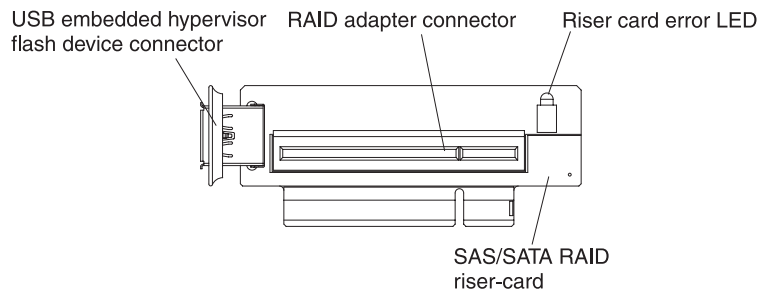Cable clip

ServeRAID M5100
series 1GB flash

- One IBM ServeRAID M5016 SAS/SATA controller
- One IBM ServeRAID M5100 series flash power module
- Two IBM ServeRAID M5100 series flash power module cables
- One cable clip
- Documentation CD
- IBM *Warranty Information* document
- IBM *Important Notices* document
- This document

Note: The illustrations in this document might differ slightly from your hardware.

To install the ServeRAID M5016 SAS/SATA controller in a server, complete the following steps.
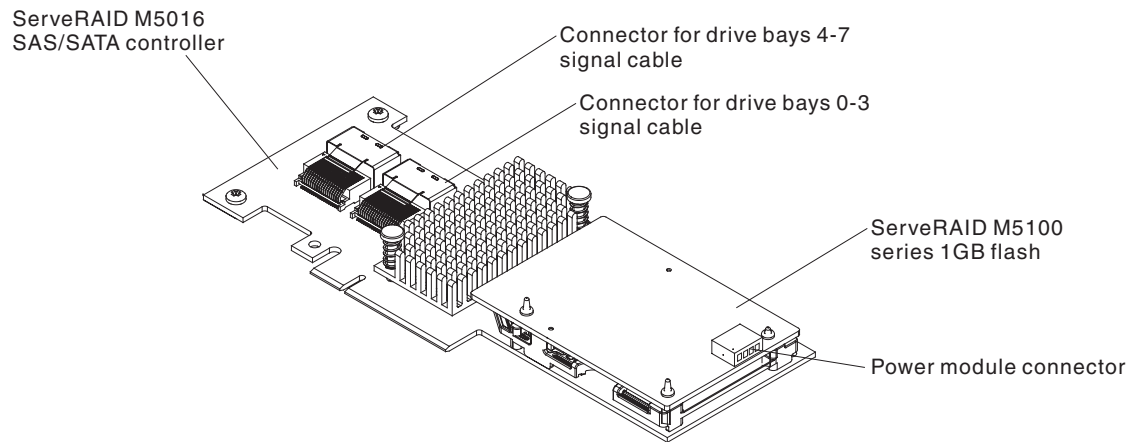1. Read the safety information that comes with the controller.
2. Turn off the server and peripheral devices and disconnect the power cords.
3. Remove the server cover. For more information, see the installation instructions that come with the server.
4. Touch the static-protective package that contains the controller to any unpainted surface on the outside of the server; then, grasp the controller by the top edge or upper corners and remove it from the package and inspect it for damage. Contact your IBM marketing representative or authorized reseller if the controller appears to be damaged.
5. Remove the SAS/SATA RAID riser-card assembly. For more information, see the installation instructions that come with the server.
6. Depending on the server model, align the SAS/SATA adapter so that the keys align correctly with the connector on the SAS/SATA RAID riser-card assembly.

USB embedded hypervisor
flash device connector

RAID adapter connector

Riser card error LED

SAS/SATA RAID
riser-card

7. Insert the SAS/SATA adapter into the connector on the SAS/SATA RAID riser card until it is firmly seated.

   Attention: Incomplete insertion might cause damage to the server or the adapter.

8. Connect the signal cable that is attached to the drive backplane for drive bays 0 through 3 to controller port 0. Connect the other signal cable that is attached to the drive backplane for drive bays 4 through 7 to controller port 1.

ServeRAID M5016
SAS/SATA controller

Connector for drive bays 4-7
signal cable

Connector for drive bays 0-3
signal cable

ServeRAID M5100
series 1GB flash

Power module connector

9. Connect one end of the power module cable to the power module connector on the flash.

10. Connect the other end of the power module cable to the power module.

    Attention: Disconnect the power module cable to the power module before removing the ServeRAID M5016 SAS/SATA controller from the PCI riser-card assembly.

11. Attach the cable clip near the power module holder by following the installation instructions that come with the server and option.

12. Install a ServeRAID M5100 series flash power module.

13. Reinstall the SAS/SATA RAID riser-card assembly. For more information, see the installation instructions that come with the server.

14. Perform any configuration tasks that are required for the adapter.

15. Replace the server cover.

16. Slide the server into the rack.

17. Reconnect the power cords and any cables that you removed.

18. Turn on the peripheral devices and the server.