Quick Start User's Guide
Intel® Storage System SSR212PPf / SSR212PP2f

The Resource CD you received with your Intel® Storage System SSR212PP-series storage system contains detailed information about planning, installing, and operating the system. For the latest detailed information about your system and its components, including supported components and configurations, planning, installation, and troubleshooting, visit the Intel support website at http://support.intel.com/support/motherboards/server.

1 Prepare your site

Before you begin, plan your environment and configuration. (Planning guides and support information are available on the Resource CD and support website.) Make sure the site where you intend to set up and use your storage system has the following:

- ☐ Standard AC power, from an independent source or a cabinet/rack power distribution unit.
- ☐ An active network with available LAN cables and connections. To initialize the storage system, each storage processor (SP) must share a network subnet with a management station (a server connected to the storage system, or another workstation). If you use a switch connection, you may need an additional LAN connection to manage the switch.
- ☐ Optical 5- or 10-meter Fibre Channel cables with small form factor (SFF) connectors.
- ☐ A static IP address for each SSR212PPf / SSR212PP2f SP (for example, 128.222.78.24) assigned by your network administrator.
  SP A ____.____.____.____
  SP B (if present) ____.____.____.____
  Subnet mask (for example, 225.225.0.0) ____.____.____.____
  Default Gateway ____.____.____.____

The storage system accessory box includes a serial cable and adapter to use for service, and a Resource CD.

The rail kit box includes adjustable slide rails and hardware for mounting the storage system in a standard 19" NEMA cabinet.

2 Prepare your server

The Intel® Storage System SSR212PPf / SSR212PP2f supports Microsoft Windows 2000* or Microsoft Windows Server 2003*, Red Hat* Linux, or SUSE* Linux servers with:

- A supported Fibre Channel host bus adapter (HBA) with the latest BIOS and driver.

- ☐ Follow the directions that came with your HBA to install the host bus adapter and the HBA driver. Install any required updates, such as service packs, hot fixes, or patches, and reboot the server when the installation is complete.
- ☐ Install PowerPath* software (available on the Resource CD) on each server you plan to connect to the storage system:

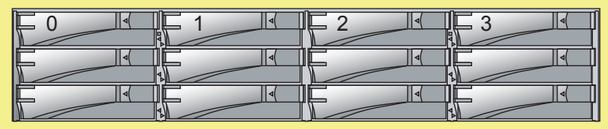
When installing PowerPath, you must install any updates, patches, and hot fixes. Check the Intel support website for any updates.*

If you plan to use a server to initialize storage system, the server must have an active LAN connection on the same subnet as the storage system.

3 Unpack your storage system

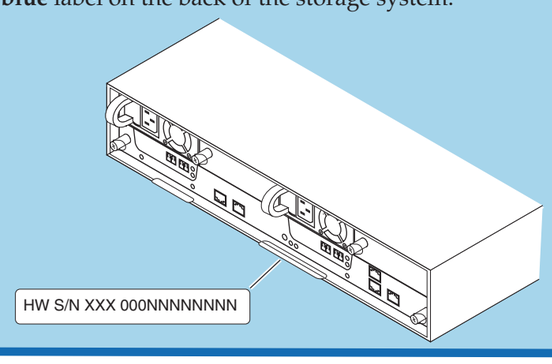
- ☐ Unpack the system as shown on the shipping carton.

The disk modules marked 0-3 are preloaded with storage-system software according to their slot assignment. *Do not move a preloaded disk from its assigned slot to another slot.* Remove it only to replace the disk module.



To install additional disks in your storage system, refer to the Resource CD or the Intel support website for instructions.

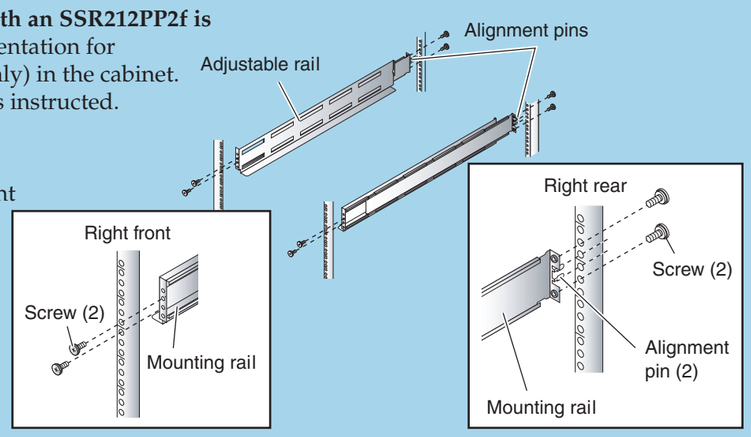
- ☐ Note and record the storage-system serial number located on the **blue** label on the back of the storage system.



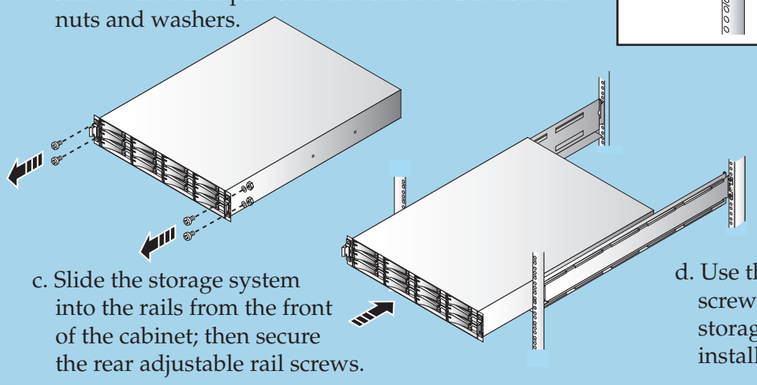
4 Install the storage system and supported switch(es) or UPS in a 19" standard NEMA cabinet / rack

- ☐ **The uninterruptible power supply (UPS) that ships with an SSR212PP2f is a required system component.** Refer to the UPS documentation for instructions on installing a UPS (SSR212PP2f systems only) in the cabinet. Make sure to attach the UPS batteries and power cord as instructed.

- ☐ Install the storage system in a cabinet:
  a. From the front of your cabinet, insert the rail alignment pins into the rear channels as shown. Pull each adjustable rail forward, and attach it to the *inside* of the front channel in the two *center* holes.

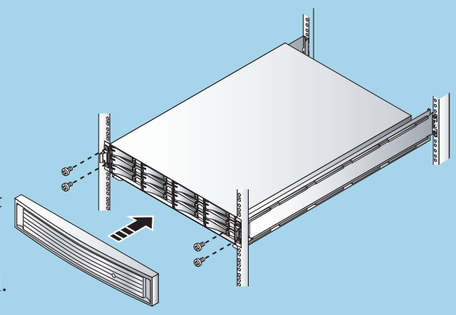


  b. Remove the front bezel (if attached), then remove the four screws that are secured with washers and nuts to the black plastic latch brackets. Discard the nuts and washers.



  c. Slide the storage system into the rails from the front of the cabinet; then secure the rear adjustable rail screws.

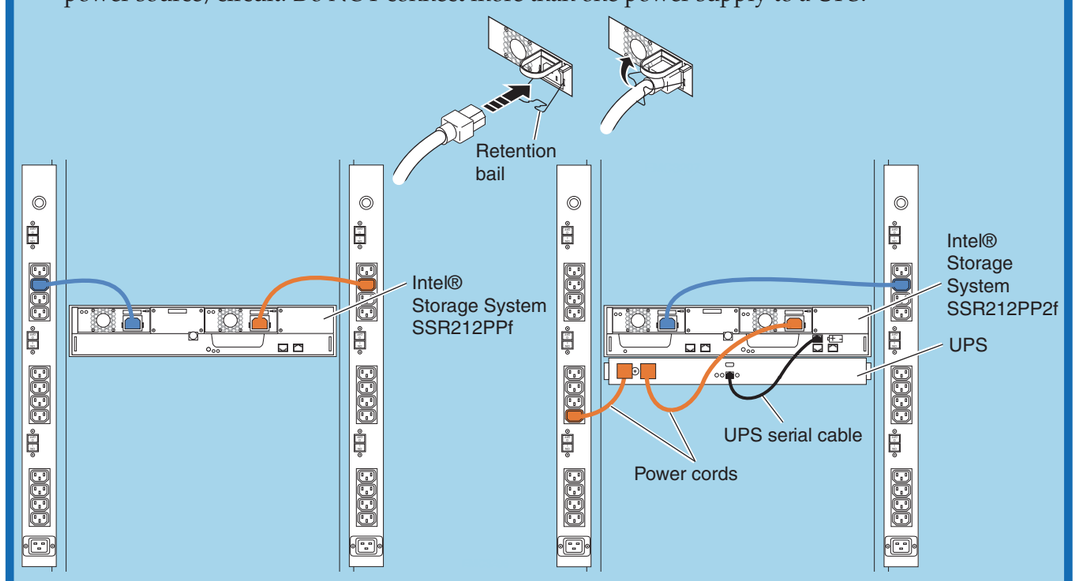
  d. Use the latch bracket screws to secure the storage system; then install the front bezel.



- ☐ Install an optional switch in the cabinet.

5 Connect AC power and UPS serial cables

- ☐ Connect AC power. Always secure the power cord at the connector with the retention bail (strain relief). The bail prevents the power cord from pulling out of the connection.
  Storage systems with two power supplies: Be sure to connect each power supply to a different power source/circuit. Do NOT connect more than one power supply to a UPS.

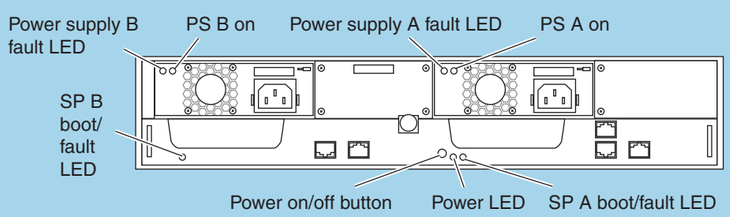


- ☐ Connect an Intel® Storage System SSR212PP2f (with two storage processors) to the UPS included in your shipment. (A single-processor Intel® Storage System SSR212PPf does not include a UPS.) Make sure you connect the purple UPS (+ -) port to the UPS. This connection is required for write-cache operation, and allows Navisphere* Express software to monitor the UPS. Be sure to ***use the unique DB9-RJ45 serial cable that accompanied your UPS***; a standard null-modem or other service serial cable may look identical but will not work.

6 Power up the storage system, switch(es), and UPS

- ☐ Refer to your UPS and/or switch documentation for instructions on how to power them up.
- ☐ The green LED on each power supply, when lit, indicates that the supply has an active UPS or other AC power source; press the storage-system power on/off button to initiate powerup.

Power LEDs on the front and rear of the storage system light and remain on while power is applied.



Disk activity LEDs on the front of the storage system will light intermittently as the disks spin up and disk I/O begins. The amber system fault LED on the front will also light while the system performs hardware powerup tests. It may take 5-6 minutes for the SP boot/fault LED(s) on the rear of the system to go off, indicating that powerup is complete.
After powerup, an amber system fault LED on the front of the storage system indicates a fault condition somewhere in the storage system. An amber LED specific to a power supply, SP, or disk indicates a fault condition on that component.

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