

R41xxx-SX1500 Quick Startup

Before you get started

This guide is intended to get your system up and running as quickly as possible. Since your system has been configured, built, and tested according to your exact specifications, only the external connections are necessary to boot your system. These will be covered here. Please read the guide completely before setting up your system.

If you purchased a rack-mount system and require information on mounting slide rails and installing your system into a cabinet, our web site contains drawings and instructions located at www.rave.com/rs-slides.html.

Should you need to reconfigure your system, we strongly recommend that you follow this guide first to insure the integrity of the system as it was shipped to you. This will greatly simplify any necessary troubleshooting should your system fail to power up properly after reconfiguring.

Caution: All procedures requiring access to internal components should be performed by qualified technicians. Be sure to take appropriate precautions against electrical hazards.

Caution: As with all electronic devices, electronic circuit boards such as the SX1500 components are extremely sensitive to static electricity. Ordinary amounts of static from your clothes or work environment can destroy some devices. Therefore, follow these guidelines:

- Handle all boards only by the non-conducting edges
- Do not touch the components to any metal parts
- Always wear a grounding wrist strap connected to ground when working on or handling the motherboard.

Inspecting your product

Please thoroughly inspect your system and the container for any damage that may have occurred during shipping. Every effort has been made to protect your system from harsh handling during transit.

If the system appears intact but the carton or packaging has been damaged, it may be prudent to reseat the memory, internal cables, and PCI cards before powering on your system. Please see **Reseating components**.

If damage has occurred to the system, please notify Rave Computer and your freight carrier immediately for instructions



Figure 1 SX1500 Motherboard I/O

Making the External Connections

Figure 1 shows the SX1500 motherboard I/O connectors. Other connectors may be accessible through PCI-based I/O cards. The PCI cards shown are for representation only.

Your system contains a universal power supply with power factor correction. The power supply will automatically sense the voltage pressure in your area, eliminating the need to set a manual voltage switch.

Caution: Make all external connections before plugging in the AC power cord. Dangerous voltages exist when the AC power cord is plugged in and the system is off.

1. *Connect the video device.* A terminal may be connected to the serial (console) DB9M port or a monitor may be connected (standard configuration) to a PCI graphics card.
2. *Connect the keyboard/mouse.* Your system supports 2 USB (1.1) connectors. Plug these devices into any connector if a monitor is being used.
3. *Make the network connection.* Connect your network cable to the 10/100/1000 Base T RJ45 connector.
4. *Install your external SCSI storage.* If your system contains a SCSI PCI card, install the external cable to the server and storage unit. Remember to terminate the last device on the bus.
5. *Connect any parallel device.* The parallel connection uses a DB25F connector.
6. *Make all other PCI card connections.*
7. *Make sure all connections are secure both to the system and to the peripherals.*
8. *Plug in the AC power cord to the system and all peripherals.*
9. *Power on all external peripherals*



Figure 2 Front Panel

Powering on your system

If the power supply on the rear of your server contains a main power switch, make sure the switch is set to the ON (I) position (Figure 1).

Press the power button on the front panel of the system (Figure 2). The green power LED will turn on solid. Approximately 30 seconds later, the power LED will flash five times before turning on solid again. During this time, your system is executing a series of power on tests. Following this, video will appear on your monitor.

Note: Pressing the reset switch will have no effect on the system. The SX1500 does not support a hardware reset function. The fan LED is not functional for this system.

If video fails to appear

Your system has been fully tested and verified before shipment. Occasionally components may become partially unseated due to excessive forces during shipping. If video fails to appear, reseating memory, or PCI cards, as well as verifying cable connections, will usually correct the problem. The corrective action is limited only to the reseating of individual components.

Caution: Remove the AC power cord before removing or reseating components. Dangerous voltages exist when the AC power cord is plugged in and the system is off.

Reseating components

To remove a memory module, press the ejection levers and lift the module free from its connector. To reseat, make sure the ejection levers are open and carefully align the module with its connector. There is a slot on the DIMM module that must line up with a key on DIMM connector. Apply light downward pressure to both ends of the DIMM to insure the component is properly aligned in its connector. Then apply firm downward pressure to one corner of the DIMM until the ejection lever closes and locks in place. Repeat the procedure to the other side of the DIMM. Then apply even pressure to both ends at once. Take great care to insure the DIMM remains vertical while applying downward pressure.

Note: If your memory has been secured in the DIMM connectors using cable-ties around the DIMM connector ejection levers, removing and reseating the memory is not necessary. Simply apply firm downward pressure to each DIMM module.

If your monitor is connected to a PCI video card, remove the screw securing the PCI bracket to the chassis. Remove the PCI card by pulling it free from its connector. If your PCI card is installed into a riser card, make sure it is fully seated into the motherboard connector before reseating the PCI card. To reseat, align the PCI card with its connector, and apply firm pressure, insuring that the top of the PCI bracket is resting on the chassis. Replace the PCI bracket screw.

Check all signal cables and power cable connections to all peripherals, PCI cards and motherboard to verify that they are fully seated. It is not necessary to remove and reseat. Simply apply pressure to each connector.

Caution: Unplug the power supply from the wall outlet before removing or installing power connectors on the motherboard. Failure to do so may result in damage to the motherboard.

If you need further assistance, please contact our technical support staff by phone at 800-966-7283 or 586-939-8230 Monday through Friday between the hours of 8:30 and 5:30 eastern time or by e-mail at support@rave.com.