

## SCS-RACK

### Description

The SCS-RACK allows you to easily upgrade a standard SCS-1 to the rack-mountable SCS-1R. The SCS-1R provides a built-in LCD Membrane Keypad for receiver programming, and to view and acknowledge alarm signals. The LCD Membrane Keypad eliminates the need for a bulky monitor and keyboard. Follow the steps in this Installation Sheet to complete the SCS-1R upgrade.

### Power Considerations



**Remove all AC power from the SCS-1:** It is recommended to NOT connect AC power to the SCS-1R Receiver until completing all chip upgrade and card installation steps.

### What's Included

The SCS-RACK includes the following items:

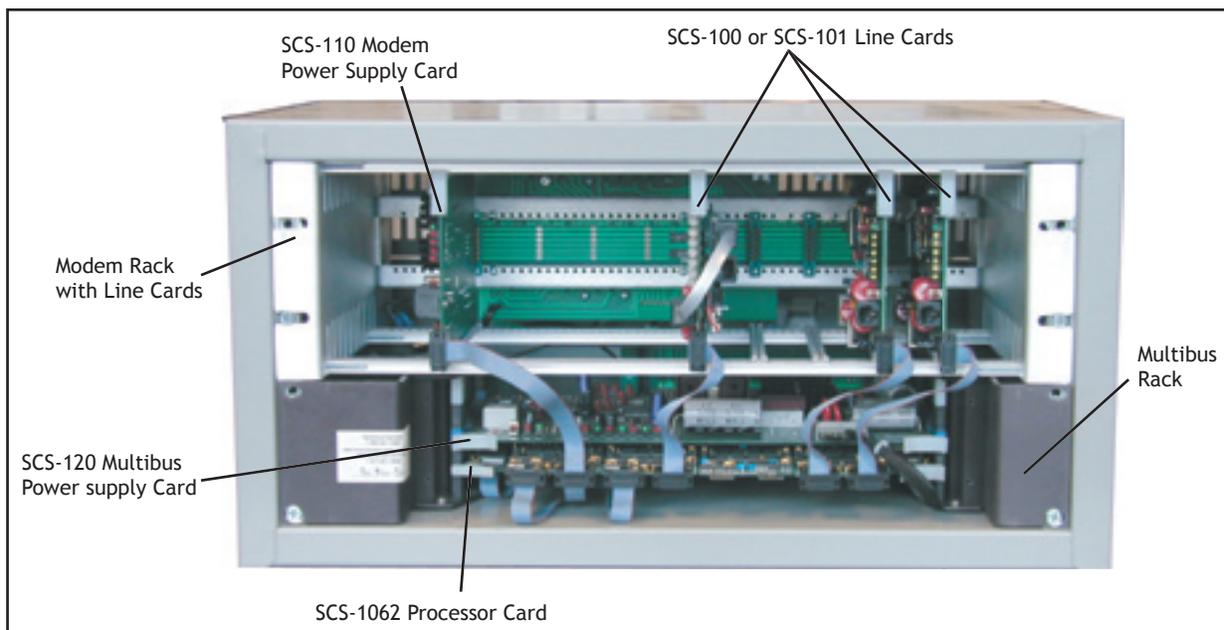
- System Enclosure
- Two ROM firmware chips
- SCS-208 Power Cable

For the upgrade, the SCS-RACK has the following items installed:

- LCD Membrane Keypad
- SCS-202 Convenience Panel

### SCS-1 Ribbon Cable Connections

The figure below identifies the existing SCS-1 line card locations and their connections to the original port numbers. Use this information to help eliminate the need to reconfigure any of the line cards in the SCS-1R programming.



**Figure 1: Standard SCS-1 Ribbon Cable Connection**

## Completing the Upgrade

To perform the upgrade from an SCS-1 to an SCS-1R, follow the steps below. For the easiest upgrade, place the SCS-201 System Enclosure and the SCS-RACK next to each other. After removing one component from the SCS-201 System Enclosure, immediately place the component into the SCS-RACK. Be sure to note all wiring connections on the drawing on page 1 for the easiest upgrade.



**Remove all AC power from the SCS-1.**

1. On the SCS-201 System Enclosure twist each of the four knobs 90 degrees counter-clockwise to remove the front plastic cover.
2. Lower the SCS-RACK System Enclosure front cover by turning the two cover knobs counter-clockwise to loosen the screws and lower the front cover.
3. Check and mark all of the existing wiring connections. Make note where the line cards are installed in the rack and to which port each cable is connected.
4. Disconnect all ribbon cables, power cables, and incoming communication lines from the components before relocating to the SCS-RACK.
5. One at a time, slide each line card out of the SCS-201 System Enclosure Modem Rack (top rack). One at a time, slide each line card into the corresponding location in the SCS-RACK System Enclosure. Reconnect the cables according to the previously noted wiring connections.
6. Slide the SCS-110 Modem Power Supply Card out of the SCS-201 System Enclosure Modem Rack. Slide the Modem Power Supply Card into the same position (far left) in the SCS-RACK Modem Rack and reconnect all cables.
7. Remove the SCS-120 Multibus Power Supply Card from the SCS-1 Multibus Rack (bottom rack). Slide the SCS-120 into the rack upper position.
8. Remove the SCS-1062 Processor Card from the SCS-201 System Enclosure Multibus Rack lower rack. Before installing the SCS-1062 into the SCS-RACK, update the firmware chips as described below. Complete the cable connections as previously noted on the page 1 drawing.

## Updating the SCS-1062 Firmware Chips

Your SCS-RACK contains the most recent firmware chips. Before installing the SCS-1062, update the firmware chips using the chips enclosed with the SCS-RACK. Place each chip in their proper location on the board and firmly press them into place. Refer to Figure 2.

After installing the firmware chips, slide the SCS-1062 Processor Card into the SCS-RACK Multibus Rack lower position.

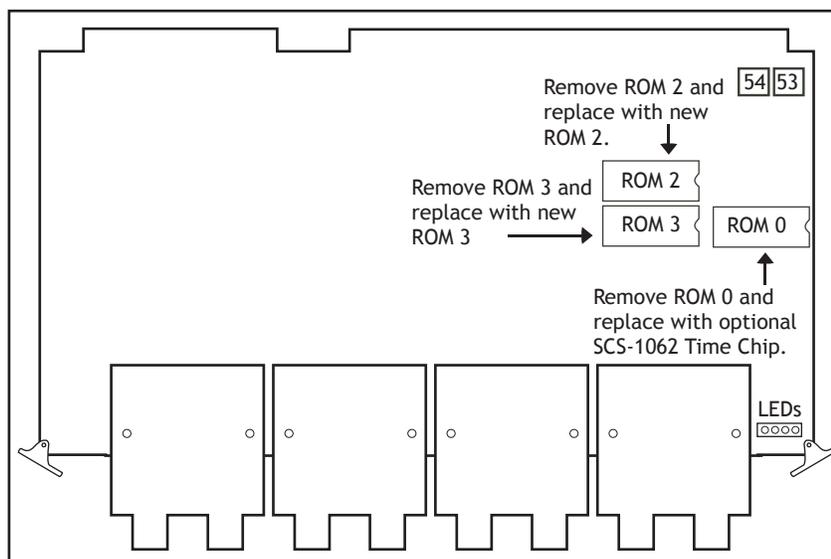


Figure 2: Chip Placement

## Making Wiring Connections

After the line cards and other components are properly installed in the SCS-RACK System Enclosure, complete the wiring connections as described below.

1. Connect the ribbon cables between the line cards and the SCS-1062 as they were connected on the SCS-1. Use Figure 1 as a guide.
2. Connect the ribbon cable from the LCD Membrane keypad to the SCS-110 Modem Power Supply Card. Connect the end marked "7" to the SCS-1062 port 7.
3. Connect the ribbon cable marked "8" (from the Host connector on the SCS-202) to the SCS-1062 port 8.
4. Connect the ribbon cable marked "6" (from Activity Log Printer connector on the SCS-202) to the SCS-1062 port 6.

## What the Completed SCS-1R Should Look Like

Refer to the diagram below.

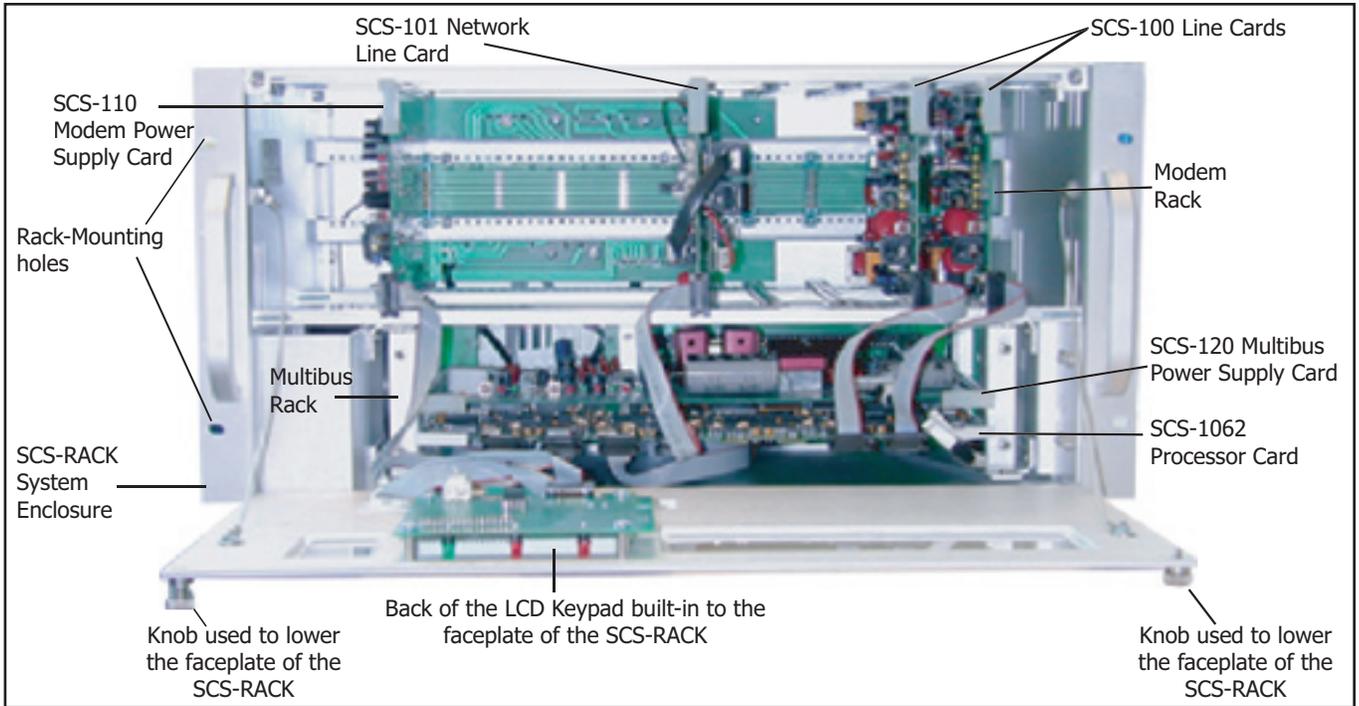


Figure 3: SCS-1R Security Control Receiver

## SCS-130 Transformer Card



**Do not connect AC power to the SCS-1R until all upgrade steps are complete.**

After properly installing the line cards and other components in the SCS-RACK System Enclosure, remove the SCS-201 enclosure two-piece back to access the SCS-130 Transformer Card. Refer to Figure 4.

1. Unplug the modem rack power cable from the SCS-130 J2 Connector.
2. Disconnect the power cord from the fan.
3. Disconnect the SCS-208 Power Cable from SCS-130 J3.
4. Remove the four screws attaching the SCS-130 to the modem rack.
5. Open the SCS-RACK enclosure back to install the SCS-130.
6. Align the SCS-130 with the four standoffs and re-attach using the provided screws.
7. Connect the power cord to the fan.
8. Connect the power cable from the modem rack PCB to the SCS-130 J2 connector.
9. Connect the SCS-208 Power Cable to the SCS-130 J3 connector. Then route the power cable under the SCS-1062 and connect to the SCS-120 Multibus Power Supply Card.

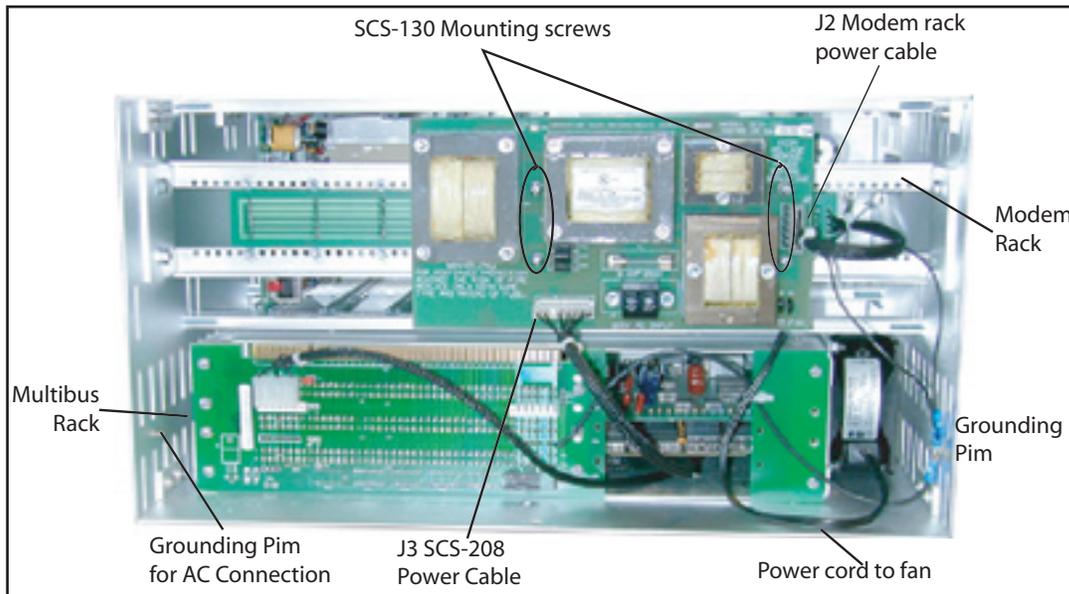


Figure 4: SCS-130 Connections

## Applying AC Power



**CAUTION: All AC wiring connections MUST be completed by an electrician!**

After making all connections, you can apply AC power to the SCS-1R Receiver. Connect the 120 VAC wiring (hardwired by an electrician) to the SCS-130 Transformer Card mounted on the Modem Rack rear. Use the provided ring terminal to attach the ground wire to the grounding pin on the inside of the SCS-RACK enclosure.

### Specifications

Dimensions 19" wide X 8.75" tall X 12" deep  
19" rack mountable

### Accessories

SCS-1062 Time	Time Chip
SCS-PTR	Printer and Cable
iCOM™	Internet Alarm Router
iCOM-E™	High Security Internet Alarm Router
Remote Link	Remote Programming Software
System Link	End-User Management Software
Alarm Monitoring	Alarm Monitoring Software
Command Center	Visual Command and Control Software



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