

**Partner: Marantz**  
**Model: SR8500 + SR7500**  
**Device Type: Surround Receiver**



## GENERAL INFORMATION

|                                    |   |
|------------------------------------|---|
| <b>SIMPLWINDOWS NAME:</b>          | Marantz SR8500 + SR7500   |
| <b>CATEGORY:</b>                   | Receiver/Processor  |
| <b>VERSION:</b>                    | V1.0  |
| <b>SUMMARY:</b>                    | This module controls and provides true feedback for the Marantz SR8500 & SR7500.  |
| <b>GENERAL NOTES:</b>              | <p>This module provides control for both zones on the SR8500 &amp; SR7500. It also provides true feedback.</p> <p>NOTE: IN THE PREFERENCES MENU, YOU MUST SET THE STBY MODE TO NORMAL. IF YOU DO NOT CHANGE THIS SETTING, YOU WILL NOT BE ABLE TO TURN THE RECEIVER ON VIA RS232.</p> <p>NOTE: THIS MODULE IS FOR 2 SERIES PROCESSORS ONLY.</p> |
| <b>CRESTRON HARDWARE REQUIRED:</b> | C2COM, ST-COM   |
| <b>SETUP OF CRESTRON HARDWARE:</b> | RS232<br>Baud: 9600<br>Parity: None<br>Data Bits: 8<br>Stop Bits: 1   |
| <b>VENDOR FIRMWARE:</b>            | None  |
| <b>VENDOR SETUP:</b>               | IN THE PREFERENCES MENU, YOU MUST SET THE STBY MODE TO NORMAL. IF YOU DO NOT CHANGE THIS SETTING, YOU WILL NOT BE ABLE TO TURN THE RECEIVER ON VIA RS232.   |
| <b>CABLE DIAGRAM:</b>              | CNSP-123  |



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|                                      |   |   |
|--------------------------------------|---|---|
| speaker_*_on/off/toggle              | D | Pulse to turn speaker a or b on and off.                        |
| sleep_timer_off                      | D | Pulse to turn the sleep timer off.                              |
| sleep_timer_*min                     | D | Pulse to set the sleep timer for the desired number of minutes. |
| sleep_set_toggle                     | D | Pulse to cycle the sleep timer.                                 |
| osd_on/off/toggle                    | D | Pulse to turn the on screen display on and off.                 |
| night_mode_on/off/toggle             | D | Pulse to turn the night mode on and off.                        |
| DC_trig1/2_on/off                    | D | Pulse to turn the DC trigger 1 or 2 on and off.                 |
| setup_menu_on/off/toggle             | D | Pulse to turn the set up menu on and off.                       |
| menu_cursor_enter/up/down/left/right | D | Pulse to control the cursor.                                    |
| surr._mode_change_forward/back       | D | Pulse to go the next or previous surround mode.                 |
| surr._*                              | D | Pulse to select the surround mode.                              |
| surr._THX_on/off/toggle              | D | Pulse to turn the THX mode on and off.                          |
| dolby_HP_change                      | D | Pulse to select the Dolby headphone mode.                       |
| dolby_HP_*                           | D | Pulse to directly select the Dolby headphone mode.              |
| test_tone_on/off/toggle              | D | Pulse to turn the test tone mode on and off.                    |
| test_tone_channel_next/back          | D | Pulse to change the test tone oscillation channel.              |
| lip_sync_off                         | D | Pulse to turn the lip sync adjustment off.                      |
| lip_sync_up/down                     | D | Pulse to adjust the lip sync delay by 10 msec.                  |
| tuner_mode_auto_stereo/mono/toggle   | D | Pulse to set the FM tuner to auto stereo or mono.               |
| tuner_freq_up/down                   | D | Press and hold to adjust the tuner frequency.                   |
| tuner_auto_*                         | D | Pulse to start and stop the tuner auto tune function.           |
| tuner_preset_up/down                 | D | Pulse to step to the next or previous tuner preset.             |

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|                                       |   |  |
|---------------------------------------|---|--|
| tuner_preset_scan_start/stop          | D | Pulse to start and stop the tuner preset scan function.  |
| tuner_key*                            | D | Pulse to enter either the tuner frequency or tuner preset number. You must pulse the tuner_freq_num_direct_set input or the tuner_preset_num_call input. |
| tuner_preset_num_call                 | D | Pulse to select the preset number entered using the tuner_key* inputs.   |
| tuner_freq_num_direct_set             | D | Pulse to select the tuner frequency entered using the tuner_key* inputs.   |
| direct_tuner_key*                     | D | Pulse to enter the preset number after pulsing the tuner_memory input or to recall the preset number directly.   |
| tuner_memory                          | D | Pulse to enter preset number before direct_tuner_key* pulse.   |
| tuner_clear                           | D | Pulse to clear memory after tuner_memory pulse.  |
| tuner_rds_disp(only_EU_Ver.)          | D | Pulse to turn the rds on and off. Only available on European models.   |
| tuner_rds_pty(only_EU_Ver.)           | D | Pulse to turn the rds pty function on and off. Only available on European models.  |
| mr_power_on/off_toggle                | D | Pulse to turn the multi-room power on and off.   |
| mr_input_*                            | D | Pulse to select the multi-room input.  |
| mr_volume_up/down                     | D | Press and hold to adjust the multi-room volume.  |
| mr_audio_mute_on/off/toggle           | D | Pulse to turn the multi-room volume mute on and off.   |
| mr_osd_on/off                         | D | Pulse to turn the multi-room on screen display on and off.   |
| mr_sleep_timer_off                    | D | Pulse to turn the multi-room sleep timer off.  |
| mr_sleep_timer_*min                   | D | Pulse to set the multi-room sleep timer for the desired number of minutes.   |
| mr_sleep_set_toggle                   | D | Pulse to cycle the sleep timer.  |
| mr_tuner_mode_auto_stereo/mono/toggle | D | Pulse to set the multi-room FM tuner to auto stereo or mono.   |
| mr_tuner_freq_up/down                 | D | Press and hold to adjust the multi-room tuner.   |
| mr_tuner_auto_*                       | D | Pulse to start and stop the tuner auto tune function.  |
| mr_tuner_preset_up/down               | D | Pulse to step to the next or previous preset.  |

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| mr_tuner_preset_scan_start/stop | D | Pulse to start and stop the preset scan function.                        |
| mr_tuner_preset_num_call        | D | Pulse to call the tuner preset number.                                   |
| mr_tuner_freq_num_direct_set    | D | Pulse to directly set the tuner frequency.                               |
| ms_power_on/off/toggle          | D | Pulse to turn the multi-room speaker on and off.                         |
| ms_volume_up/down               | D | Press and hold to adjust the multi-room speaker volume.                  |
| ms_audio_mute_on/off/toggle     | D | Pulse to turn the multi-room speaker volume mute on and off.             |
| ms_volume_variable/fixed/toggle | D | Pulse to change the multi-room speaker volume mode to variable or fixed. |
| auto_status_on/off              | D | Pulse to turn the auto status function on and off.                       |

### FEEDBACK:

|                                      |   |   |
|--------------------------------------|---|---|
| TX\$                                 | S | Serial signal to be routed to a 2-way serial com port.  |
| power_on/off_fb                      | D | High to indicate the current power state for the main zone.   |
| video_input_*_fb                     | D | High to indicate the currently selected video input.  |
| audio_input_*_fb                     | D | High to indicate the currently selected audio input.  |
| input_analog/digital_autoselected_fb | D | High to indicate the currently auto selected input type.  |
| input_analog/digital_fixed_fb        | D | High to indicate the currently manually selected input type.  |
| volume_bar                           | A | Analog value indicating the current volume level. To be displayed using a bar graph on a touch panel.         |
| volume\$                             | S | Serial signal indicating the current volume level in dB. This is the same as the front panel of the receiver. |
| audio_mute_on/off_fb                 | D | High to indicate the current state of the volume mute.  |
| attenuator_on/off_fb                 | D | High to indicate the current state of the attenuator function.  |
| bass/treble_bar                      | A | Analog values indicating the current bass or treble level. To be displayed using bar graphs on a touch panel. |

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| bass/treble\$                       | S | Serial signal indicating the current bass and treble level. This is the same as the front panel of the receiver.                                 |
| video_mute_on/off_fb                | D | High to indicate the current state of the video mute.  |
| display_input/surr./auto_off/off_fb | D | High to indicate the currently selected front panel display mode.  |
| speaker_*_on/off_fb                 | D | High to indicate the current state for speakers a and b.   |
| sleep_timer_off_fb                  | D | High to indicate that the sleep timer is off.  |
| sleep_timer_bar                     | A | Analog value indicating the time remaining before the sleep mode will turn the receiver off. To be displayed using a bar graph on a touch panel. |
| sleep\$                             | S | Serial signal indicating the sleep time remaining.   |
| osd_on/off_fb                       | D | High to indicate the current state of the on screen display.   |
| night_mode_on/off_fb                | D | High to indicate the current state of the night mode.  |
| DC_trig1/2_on/off_fb                | D | High to indicate the current state of the DC triggers 1 & 2.   |
| setup_menu_on/off_fb                | D | High to indicate the current state of the setup menu.  |
| surr.*_fb                           | D | High to indicate the currently selected surround mode.   |
| dolby_HP*_fb                        | D | High to indicate the currently active headphone mode.  |
| test_tone_on/off_fb                 | D | High to indicate the current state of the test tone.   |
| test_tone_auto/manual_mode_fb       | D | High to indicate the current test tone mode.   |
| test_tone_ch*_fb                    | D | High to indicate the current channel of test tone.   |
| lip_sync_off_fb                     | D | High to indicate that the lip sync function is currently off.  |
| lip_sync_bar                        | A | Analog value indicating the current lip sync delay. To be displayed using a bar graph on a touch panel.  |
| lip_sync\$                          | S | Serial signal indicating the current lip sync delay.   |
| tuner_stereo/mono_fb                | D | High to indicate the current stereo/mono mode of the tuner.  |
| tuner_frequency_fm                  | A | Analog value indicating the currently tuned FM channel. To be display using a digital gauge in the format XXX.XX.                                |

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|                            |   |   |
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| tuner_frequency_am         | A | Analog value indicating the currently tunes AM channel. To be displayed using a digital gauge in the format XXXX.                                       |
| tuner_preset_number        | A | Analog value indicating the currently selected tuner preset number.   |
| tuner_keyin_value          | A | Analog value indicating the current value entered using the tuner_key* inputs.  |
| mr_power_on/off_fb         | D | High to indicate the current power state of the multi-room zone.  |
| mr_video_input*_fb         | D | High to indicate the currently selected video input for the multi-room zone.  |
| mr_audio_input*_fb         | D | High to indicate the currently selected audio input for the multi-room zone.  |
| mr_volume_bar              | A | Analog value indicating the current volume level for the multi-room zone. To be displayed using a bar graph on a touch panel.                           |
| mr_volume\$                | S | Serial signal indicating the current volume level for the multi-room zone. This is the same as on the front panel of the receiver.                      |
| mr_audio_mute_on/off_fb    | D | High to indicate the current state of the multi-room volume mute.   |
| mr_volume_variable/fixe_fb | D | High to indicate whether the multi-room volume is variable or fixed.  |
| mr_osd_on/off_fb           | D | High to indicate the current state of the multi-room zone on screen display.  |
| mr_sleep_timer_off_fb      | D | High to indicate that the multi-room sleep timer is off.  |
| mr_sleep_timer_bar         | A | Analog value indicating the time remaining before the sleep mode will turn the multi-room zone off. To be displayed using a bar graph on a touch panel. |
| mr_sleep\$                 | S | Serial signal indicating the sleep time remaining for the multi-room zone.  |
| mr_tuner_stereo/mono_fb    | D | High to indicate the current multi-room tuner stereo/mono mode.   |
| mr_tuner_frequency_fm      | A | Analog value indicating the currently tuned FM channel for the multi-room tuner. To be display using a digital gauge in the format XXX.XX.              |
| mr_tuner_frequency_am      | A | Analog value indicating the currently tunes AM channel for the multi-room tuner. To be displayed using a digital gauge in the format XXXX.              |
| mr_tuner_preset_number     | A | Analog value indicating the currently selected tuner preset number for the multi-room tuner.  |
| ms_power_on/off_fb         | D | High to indicate the current state of the multi-room speaker power.   |
| ms_volume_bar              | A | Analog value indicating the current volume level for the multi-room speaker. To be  |

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|                             |   |   |
|-----------------------------|---|---|
|                             |   | displayed using a bar graph on a touch panel.   |
| ms_volume\$                 | S | Serial signal indicating the current volume level for the multi-room speaker. This is the same as on the front panel of the receiver. |
| ms_audio_mute_on/off_fb     | D | High to indicate the current state of the multi-room speaker volume mute.   |
| ms_volume_variable/fixed_fb | D | High to indicate whether the multi-room speaker volume is variable or fixed.  |
| auto_status_on/off_fb       | D | High to indicate the current state of the auto status function.   |
| signal_*_fb                 | D | High to indicate the type of digital audio signal received.   |
| sample_*_fb                 | D | High to indicate the sampling rate of the received digital signal.  |
| ch_status_*_fb              | D | High to indicate the active channels for the received digital signal.   |

## TESTING:

|                            |                                  |
|----------------------------|----------------------------------|
| OPS USED FOR TESTING:      | PRO2: 3.137                      |
| COMPILER USED FOR TESTING: | 2.05.22                          |
| SAMPLE PROGRAM:            | Marantz SR8500+ SR7500 Demo PRO2 |
| REVISION HISTORY:          | V. 1.0                           |