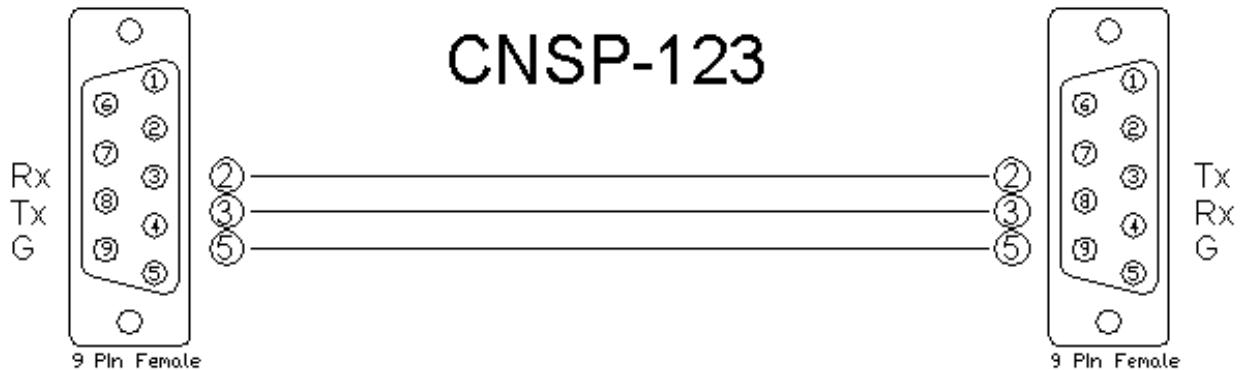


Partner: Marantz  
 Model: SR8001  
 Device Type: AV Surround Receiver



**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Marantz SR8001
<b>CATEGORY:</b>	Audio Processor
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	Controls all of the standard functions and provides true feedback.
<b>GENERAL NOTES:</b>	This module will control all of the standard functions on a Marantz SR8001 AV Surround Receiver. The unit provides true feedback. Functions provided include main zone control, zone 2 control, menu selection and tuner band/preset selection. Note: XM Tuner controls require Main Power On to function correctly. FM tuning needs 5 digits.
<b>CRESTRON HARDWARE REQUIRED:</b>	ST-COM, C2I-COM, C2COM-2/3
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	N/A
<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





Certified Module

Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



## CONTROL:

power_on/off/toggle	D	Pulse to turn the receiver's main power on and off.
<input>	D	Pulse to select the input.
*_volume_up/down	D	Pulse to turn the zone's volume up and down.
*_audio_Mute_On/Off/Toggle	D	Pulse to turn the zone's audio mute on and off.
volume_value(-72d_to_18d)	A	Analog value indicating the current main volume level. To be displayed using a bar graph on a touch panel.
volume_set_direct	D	Pulse to set volume direct.
volume_set_gradual	D	Pulse to set volume gradual (from a ramp).
attenuator_on/off/toggle	D	Pulse to select the attenuation mode.
<Channel>_Up/Down	D	Press and hold to adjust the channel's bass/treble up and down.
video_mute_on/off/toggle	D	Pulse to select the video input.
HDMI_out1/2/Toggle	D	Pulse to select the HDMI Input or toggle between them.
display_cyclic	D	Pulse to cycle display.
display_function	D	Pulse to select display function.
display_input_mode	D	Pulse to change display input mode.
display_surround_mode	D	Pulse to change display surround mode.
display_auto_off	D	Pulse to change display auto off mode.
display_off	D	Pulse to change display auto off mode to off.
speaker_AB_cyclic	D	Pulse to cycle Speakers A and B.
speaker_A/B_on/off	D	Pulse to turn Speakers A and B on/off.
sleep_timer_off	D	Pulse to turn sleep timer off.
sleep_timer_*min	D	Pulse to adjust sleep timer.



Certified Module

Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



night_mode_on/off	D	Pulse to change night mode on/off.
DC_trig1_on/off	D	Pulse to set DC triggers 1 on/off.
DC_trig2_on/off	D	Pulse to set DC triggers 2 on/off.
re-EQ_on/off/toggle	D	Pulse to set EQ on or off.
bilingual_main	D	Pulse for bilingual main.
bilingual_sub	D	Pulse for bilingual sub.
bilingual_main+sub	D	Pulse for bilingual main and sub.
bilingual_cyclic	D	Pulse for bilingual cycling.
setup_menu_on/off/toggle	D	Pulse to display/hide on screen menu.
menu_cursor_*	D	Pulse to navigate screen menu.
surr_mode_change_next/prev	D	Pulse to change surround modes up/down.
surr_*	D	Pulse to change surround modes discretely.
dolby_HP_change	D	Pulse to change HP mode.
dolby_HP_bypass	D	Pulse to change HP mode.
dolby_HP_mode1	D	Pulse to change HP mode.
dolby_HP_mode1+PL2mo	D	Pulse to change HP mode.
dolby_HP_mode1+PL2mu	D	Pulse to change HP mode.
test_tone_on(auto_mode)	D	Pulse to change test tone auto mode.
test_tone_off	D	Pulse to change test tone off.
test_tone_toggle	D	Pulse to change test tone on/off.
test_tone_channel_next/prev	D	Pulse to change test tone up/down.
lip_svnc_off	D	Pulse to disable lip sync function.



Certified Module

Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



lip_svnc_up	D	Pulse to change lip sync function in the up direction.
lip_svnc_down	D	Pulse to change lip sync function in the down direction.
tuner_mode_auto_stereo	D	Pulse to set tuner mode to auto stereo.
tuner_mode_mono	D	Pulse to set tuner mode to mono.
tuner_mode_toggle	D	Pulse to toggle tuner modes from stereo to mono.
tuner_freq_up/down	D	Pulse to change tuner frequency up/down.
tuner_auto_up/down/stop	D	Pulse to change tuner auto frequency up/down.
tuner_preset_up/down	D	Pulse to change tuner preset up/down.
tuner_preset_scan_start/stop	D	Pulse to scan start/stop tuner presets.
tuner_preset_info_on/off/toggle	D	Pulse to display/hide tuner presets information.
tuner_key*	D	Pulse to direct enter a tuner key.
tuner_preset_num_call	D	Pulse to direct enter a preset tuner recall.
tuner_freq_num_direct_set	D	Pulse to direct enter a preset tuner store.
tuner_xm_disp.mode_normal	D	Pulse to change XM tuner display mode to normal.
tuner_xm_disp.mode_artist/song	D	Pulse to change XM tuner display mode to artist/song.
tuner_xm_disp.mode_category	D	Pulse to change XM tuner display mode to category.
tuner_xm_disp.mode_status	D	Pulse to change XM tuner display mode to status.
tuner_xm_disp.mode_toggle	D	Pulse to change XM tuner display mode to toggle states.
tuner_xm_category_ch_up/down	D	Pulse to change XM tuner channels.
tuner_xm_category_next/prev	D	Pulse to change XM tuner categories.
tuner_xm_category_direct_set	D	Pulse to direct enter XM tuner categories.
mrA/B_power_on/off/toggle	D	Pulse to change power state for Zones 1 and 2 (called Multi rooms).



Certified Module

Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



mrA/B_input_*	D	Pulse to change Zone 1 or 2 input sources.
mrA/B_volume_up/down	D	Pulse to change Zone 1 or 2 volume level.
mrA/B_audio_mute_on/off/toggle	D	Pulse to change Zone 1 or 2 volume mute status.
mrA/B_volume_variable/fixed	D	Pulse to change Zone 1 or 2 volume variable or fixed status.
mrA/B_stereo	D	Pulse to set Zone 1 or 2 stereo.
mrA/B_mono	D	Pulse to set Zone 1 or 2 mono.
mrA/B_stereo/mono	D	Pulse to toggle Zone 1 or 2 stereo/mono.
mrA/B_sleep_timer_off	D	Pulse to set Zone 1 or 2 sleep timer off.
mrA/B_sleep_timer_*min	D	Pulse to set Zone 1 or 2 sleep timer to different durations in minutes.
mrA/B_tuner_mode_auto_stereo	D	Pulse to set Zone 1 or 2 tuner mode to auto/stereo.
mrA/B_tuner_mode_mono	D	Pulse to set Zone 1 or 2 tuner mode to mono.
mrA/B_tuner_mode_toggle	D	Pulse to toggle Zone 1 or 2 tuner stereo/mono.
mrA/B_tuner_freq_up/down	D	Pulse to change Zone 1 or 2 tuner frequency up/down.
mrA/B_tuner_auto_up/down/stop	D	Pulse to change Zone 1 or 2 auto up/down/stop.
mrA/B_tuner_preset_up/down	D	Pulse to change Zone 1 or 2 preset up/down.
mrA/B_tuner_preset_scan_start/stop	D	Pulse to change Zone 1 or 2 preset scan start/stop.
mrA/B_tuner_key*	D	Pulse to direct enter Zone 1 or 2 tuner key.
mrA/B_tuner_preset_num_call	D	Pulse to direct enter Zone 1 or 2 preset.
mrA/B_tuner_freq_num_direct_set	D	Pulse to direct enter Zone 1 or 2 frequency number.
msA/B_power_on/off/toggle	D	Pulse to change power state for Zones 1 and 2 speakers (called Multi Speaker).
msA/B_volume_up/down	D	Pulse to change volume level for Zones 1 and 2 speakers (called Multi Speaker).
msA/B_audio_mute_on/off/toggle	D	Pulse to change volume mute for Zones 1 and 2 speakers (called Multi Speaker).

**Partner: Marantz**  
**Model: SR8001**  
**Device Type: AV Surround Receiver**



msA/B_volume_variable/fixed	D	Pulse to change volume variable/fixed state for Zones 1 and 2 speakers (called Multi Speaker).
auto_status_on/off	D	Pulse to change auto status on/off.
From_Device\$	S	Serial signal to be routed from a 2-way serial com port.

### FEEDBACK:

power_on/off_fb	D	High to indicate the current power state of the unit.
video_input_*_fb	D	High to indicate the current video input of the unit.
audio_input_*_fb	D	High to indicate the current audio input of the unit.
input_analog_fb	D	High to indicate the current analog status of audio input of the unit.
input_digital_fb	D	High to indicate the current digital status of audio input of the unit.
input_HDMI_fb	D	High to indicate the current input HDMI status of the unit.
volume_bar	A	Analog value indicating the current main zone volume level. To be displayed using a bar graph on a touch panel.
volume\$	S	Serial string representing volume level.
audio_mute_on/off_fb	D	High to indicate the current main volume mute state.
attenuator_on/off_fb	D	High to indicate the current attenuator on/off state.
bass/treble_bar	A	Analog value indicating the current main zone bass/treble level. To be displayed using a bar graph on a touch panel.
bass/treble\$	S	Serial string representing bass/treble level.
video_mute_on/off_fb	D	High to indicate the current video mute on/off state.
HDMI_out1/2_fb	D	High to indicate the current HDMI 1 or 2 output state.
display_function_fb	D	High to indicate the current display function state.
display_input_mode_fb	D	High to indicate the current display input mode state.
display_surround_mode_fb	D	High to indicate the current surround mode state.



Certified Module

Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



display_auto_off_fb	D	High to indicate the display's auto/off state.
display_off_fb	D	High to indicate the display's off state.
speaker_A_on/off_fb	D	High to indicate the Speaker A's on/off state.
speaker_B_on/off_fb	D	High to indicate the Speaker B's on/off state.
sleep_timer_off_fb	D	High to indicate the sleep timer is off.
sleep_timer_bar	A	Analog value indicating the current sleep timer value in minutes. To be displayed using a bar graph on a touch panel.
sleep\$	S	Serial string data representing sleep time.
night_mode_on/off_fb	D	High to indicate the night mode is on/off.
DC_trig1_on/off_fb	D	High to indicate the DC trigger 1 is on/off.
DC_trig2_on/off_fb	D	High to indicate the DC trigger 2 is on/off.
re-EQ_on/off_fb	D	High to indicate the RE-EQ is on/off.
bilingual_main_fb	D	High to indicate bilingual main.
bilingual_sub_fb	D	High to indicate bilingual sub.
bilingual_main+sub_fb	D	High to indicate bilingual main and sub.
setup_menu_on/off_fb	D	High to indicate setup menu on/off state.
surr._*_fb	D	High to indicate surround mode state.
dolby_HP*_fb	D	High to indicate Dolby HP mode state.
test_tone_on/off_fb	D	High to indicate test tone on/off state.
test_tone_auto_mode_fb	D	High to indicate test tone auto mode state.
test_tone_manual_mode_fb	D	High to indicate test tone manual mode state.
test_tone_ch*_fb	D	High to indicate test tone channel state.
lip_sync_off_fb	D	High to indicate lip sync off.



Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



lip_sync_bar	A	Analog value indicating the current lip sync value. To be displayed using a bar graph on a touch panel.
lip_sync\$	S	Serial string representing lip sync level.
tuner_stereo/mono_fb	D	High to indicate tuner stereo/mono state.
tuner_frequency_fm/am	A	Analog value indicating the current tuner frequency value. To be displayed using a bar graph on a touch panel.
tuner_frequency_or_channel\$	S	Serial string representing frequency or channel.
tuner_preset_number	A	Analog value indicating the current tuner preset value. To be displayed using a bar graph on a touch panel.
tuner_preset_info_on/off_fb	D	High to indicate tuner preset info on/off state.
tuner_keyin_value	A	Analog value indicating the current tuner key input value. To be displayed using a bar graph on a touch panel.
tuner_xm_disp.mode_normal_fb	D	High to indicate XM tuner display mode normal state.
tuner_xm_disp.mode_artist/song_fb	D	High to indicate XM tuner display mode artist song state.
tuner_xm_disp.mode_category_fb	D	High to indicate XM tuner display mode category state.
tuner_xm_disp.mode_status_fb	D	High to indicate XM tuner display mode status state.
tuner_xm_category_num\$	S	Serial string representing XM category number.
tuner_xm_category_in_search_fb	D	High to indicate XM tuner category in search state.
tuner_xm_category_character\$	S	Serial string representing XM category.
tuner_xm_channel_character\$	S	Serial string representing XM channel.
tuner_xm_artist_character\$	S	Serial string representing XM artist.
tuner_xm_song_character\$	S	Serial string representing XM song.
xm_check_antenna_fb	D	High to indicate XM tuner antenna needs to be checked.
xm_signal_non_fb	D	High to indicate XM tuner antenna has no signal.
xm_signal_weak_fb	D	High to indicate XM tuner antenna has weak signal.





Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



xm_signal_marginal_fb	D	High to indicate XM tuner antenna has marginal signal.
xm_signal_strong_fb	D	High to indicate XM tuner antenna has strong signal.
tuner_busy_on_Main_fb	D	High to indicate tuner busy.
mrA/B_power_on/off_fb	D	High to indicate Zone 1 and 2's power state.
mrA/B_video_input_*_fb	D	High to indicate Zone 1 and 2's video input state.
mrA/B_audio_input_*_fb	D	High to indicate Zone 1 and 2's audio input state.
mrA/B_volume_bar	A	Analog value indicating the current volume level value. To be displayed using a bar graph on a touch panel.
mrA/B_volume\$	S	Serial string representing volume.
mrA/B_audio_mute_on/off_fb	D	High to indicate Zone 1 and 2's audio mute on/off state.
mrA/B_volume_variable/fixed_fb	D	High to indicate Zone 1 and 2's audio volume fixed/variable state.
mrA/B_stereo/mono_fb	D	High to indicate Zone 1 and 2's audio stereo/mono state.
mrA/B_sleep_timer_off_fb	D	High to indicate Zone 1 and 2's sleep timer off state.
mrA/B_sleep_timer_bar	A	Analog value indicating the current sleep timer level value for Zones 1 and 2. To be displayed using a bar graph on a touch panel
mrA/B_sleep\$	S	Serial string representing sleep time for Zones 1 and 2.
mrA/B_tuner_mode_auto_stereo/mono_fb	D	High to indicate Zone 1 and 2's tuner mode auto/stereo/mono state.
mrA/B_tuner_frequency_fm/am	A	Analog value indicating the current tuner FM/AM frequency value. To be displayed using a bar graph on a touch panel.
mrA/B_tuner_freq\$	S	Serial string representing tuner frequency for Zones 1 and 2.
mrA/B_tuner_preset_number	A	Analog value indicating the current tuner preset value. To be displayed using a bar graph on a touch panel.
mrA/B_tuner_keyin_value	A	Analog value indicating the current tuner keyboard entry value. To be displayed using a bar graph on a touch panel.
msA/B_power_on/off_fb	D	High to indicate Zone 1 and 2's speaker on/off state.



Partner: Marantz  
Model: SR8001  
Device Type: AV Surround Receiver



msA/B_volume_bar	A	Analog value indicating the current volume level for Zones 1 and 2 speakers. To be displayed using a bar graph on a touch panel.
msA/B_volume\$	S	Serial string representing volume level for Zones 1 and 2 speakers.
msA/B_volume_variable/fixed_fb	D	High to indicate Zone 1 and 2's volume variable/fixed state.
auto_status_on/off_fb	D	High to indicate auto status on/off state.
signal_*_fb	D	High to indicate signal state.
sampling_out_range_fb	D	High to indicate sampling rate out of range state.
sampling*_k_fb	D	High to indicate sampling rate in KHz state.
ch_status_*_fb	D	High to indicate channel status state.
To_Device\$	S	Serial signal to be routed to a 2-way serial com port.

### TESTING:

OPS USED FOR TESTING:	3.155.1240
SIMPL WINDOWS USED FOR TESTING:	2.08.44
CRES DB USED FOR TESTING:	18.9.1
SYMBOL LIBRARY USED FOR TESTING:	508
SAMPLE PROGRAM:	Marantz SR8001 Demo Pro2
REVISION HISTORY:	V. 1.0