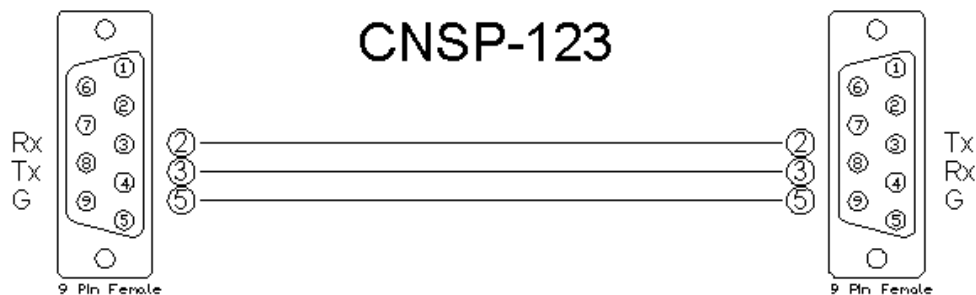


Partner: Marantz
Model: SR5004 + SR6004
Device Type: AV Surround Receiver


GENERAL INFORMATION

SIMPLWINDOWS NAME:	Marantz SR5004 + SR6004 v1.0
CATEGORY:	Audio Processor
VERSION:	1.0
SUMMARY:	Controls all standard functions and provides true feedback.
GENERAL NOTES:	<p>This module will control all of the standard functions on a Marantz SR5004 or SR6004 AV Surround Receiver. The unit provides true feedback. Functions provided include main zone control, zone 1 and 2 control, menu selection and tuner band/preset selection. Note: XM and Sirius Tuner controls require Main Power On to function correctly.</p> <p>FM tuning needs 5 digits. XM and Sirius tuners are exclusive. If one is being used the other cannot be used elsewhere.</p> <p>NOTE: THIS MODULE IS 2-SERIES ONLY.</p>
CRESTRON HARDWARE REQUIRED:	ST-COM, C2I-COM6, C2COM-2/3
SETUP OF CRESTRON HARDWARE:	<p>RS232</p> <p>Baud: 9600</p> <p>Parity: None</p> <p>Bits: 8</p> <p>Stop Bits: 1</p>
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	<p>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. PRESETS MUST BE SETUP IN THE UNIT FOR RECALL ONLY FROM PROGRAM.</p>
CABLE DIAGRAM:	CNSP-123



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CONTROL:

Power_On/Off/Toggle	D	Pulse to turn the receiver's main power on and off.
Power_Main_ & Multi_Off	D	Pulse to turn the receiver's main and zones off.
Select_Input_*	D	Pulse to select a main zone input.
Input_7.1ch_On/Off/Toggle	D	Pulse to select the 7.1 ch input.
*Volume_Up/Down	D	Pulse to raise/lower selected zone's volume.
*Audio_Mute_On/Off/Toggle	D	Pulse to mute/unmute selected zone's audio.
Attenuation_On/Off/Toggle	D	Pulse to select the attenuation mode.
Bass_Up/Down	D	Press and hold to adjust channel's bass up or down.
Treble_Up/Down	D	Press and hold to adjust channel's treble up or down.
Video_Mute_On/Off/Toggle	D	Pulse to mute/unmute video output.
IP_Converter_Enable/Disable	D	Pulse to turn the IP converter on/off.
HDMI_Out1/Out2/Toggle	D	Pulse to select the HDMI output or toggle between them.
HDMI_Audio_Enable	D	Pulse to enable HDMI audio.
HDMI_Audio_Through	D	Pulse to pass the HDMI audio through.
Display_Cycle	D	Pulse to cycle front display mode.
Display_Function	D	Pulse to select front display function.
Display_Input_Mode	D	Pulse to change front display input mode.
Display_Surround_Mode	D	Pulse to change front display surround mode.
Display_Auto_Off	D	Pulse to change front display auto off mode.
Display_Off	D	Pulse to change front display auto off mode to off.
Frontkey_Lock/Unlock	D	Pulse to lock/unlock the front keys.
Speaker_A/B_On/Off	D	Pulse to turn speakers A and B on or off.
Sleep_Timer_Off	D	Pulse to turn main sleep timer off.

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Sleep_Timer_*min	D	Pulse to set main sleep timer in minutes.
Sleep_Timer_Cycle	D	Pulse to cycle main sleep timer minutes.
Night_Mode_Auto	D	Pulse to set the night mode to auto.
Night_Mode_On/Off	D	Pulse to turn night mode on/off.
M-Dax_High/Low/Off	D	Pulse to change M-DAX mode high/low/off.
EQ_Mode_*	D	Pulse to set EQ Mode.
DC_Trigger_1_On/Off	D	Pulse to set DC triggers 1 on/off.
HT-EQ_On/Off/Toggle	D	Pulse to enable/disable HT-EQ mode.
Bilingual_Main/Sub/Main+Sub	D	Pulse for bilingual main, bilingual sub or bilingual main + sub.
Menu_Cursor_*	D	Pulse to display/hide onscreen menu.
Surround_Mode_Change_Prev/Next	D	Pulse to navigate menu screen.
Surround_*	D	Pulse to change surround modes up/down.
Dolby_Headphone_*	D	Pulse to change surround modes discretely.
Test_Tone_On(Auto_Mode)/Off/Toggle	D	Pulse to change the Dolby Headphone mode discretely.
Test_Tone_Channel_Next/Prev	D	Pulse to change test tone auto mode or off.
Lip_Sync_Off	D	Pulse to change test tone up or down.
Lip_Sync_Up/Down	D	Pulse to disable lip sync.
Tuner_Mode_Auto_Stereo/Mono/Toggle	D	Pulse to adjust lip sync function up/down.
Tuner_Freq_Up/Down	D	Pulse to set tuner mode to auto stereo or mono.
Tuner_Auto_Up/Down/Stop	D	Pulse to change tuner freq up/down.
Tuner_Preset_Up/Down	D	Pulse to scan stop tuner auto scan.
Tuner_Preset_Scan_Start/Stop	D	Pulse to step to the next or previous tuner preset.
Tuner_Preset_Info_On/Off/Toggle	D	Pulse to start or stop scanning the tuner presets.
Tuner_Key*	D	Pulse to display/hide tuner preset information.

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Tuner_Preset_Num_Call	D	Pulse to direct enter a tuner key.
Tuner_Freq_Num_Direct_Set	D	Pulse to direct enter a preset recall.
Tuner_XM_Category_Channel_Up/Down	D	Pulse to enter a tuner freq directly.
Tuner_XM_Category_Next/Prev	D	Pulse to change XM tuner channels up/down.
Tuner_Sirius_Category_Channel_Up/Down	D	Pulse to change XM tuner categories up/down.
Tuner_Sirius_Category_Next/Prev	D	Pulse to change SIRIUS tuner channels up/down.
MR_*_Power_On/Off/Toggle	D	Pulse to change SIRIUS tuner categories up/down.
MR_*_Input_*	D	Pulse to change power state for the desired multi-room.
MR_*_Volume_Up/Down	D	Pulse to change the input for the desired multi-room.
MR_*_Audio_Mute_On/Off/Toggle	D	Pulse to change volume level for the desired multi-room.
MR_*_Volume_Variable/Fixed	D	Pulse to turn the audio mute on and off for the desired multi-room.
MR_A_Stereo/Mono	D	Pulse to set the volume to variable/fixed for the desired multi-room.
MR_*_Sleep_Timer_Off	D	Pulse to set the multi-room a to stereo or mono.
MR_*_Sleep_Timer_*min	D	Pulse to set the sleep timer to off for the desired multi-room.
MR_*_Sleep_Cycle	D	Pulse to set the sleep timer in minutes for the desired multi-room.
MR_A_Tuner_Mode_Auto_Stereo/Mono/Toggle	D	Pulse to step between the sleep Timer settings for the desired multi-room.
MR_*_Tuner_Freq_Up/Down	D	Pulse to set the tuner mode to auto stereo or mono for multi-room a.
MR_*_Tuner_Auto_Up/Down/Stop	D	Pulse to change the tuner frequency up or down for the desired multi-room.
MR_*_Preset_Up/Down	D	Pulse to start or stop scanning the tuner presets.
MR_*_Tuner_Preset_Scan_Start/Stop	D	Pulse to change the tuner preset up/down for the desired multi-room.
MR_*_Tuner_Key*	D	Pulse to display/hide tuner preset information.
MR_*_Tuner_Preset_Num_Call	D	Pulse to direct enter a tuner key.
MR_*_Tuner_Freq_Num_Direct_Set	D	Pulse to direct enter a preset recall.
Tuner_XM_Category_Channel_Up/Down	D	Pulse to enter a tuner freq directly.

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MS_A_Volume_Up/Down	D	Pulse to change XM tuner channels up/down.
Tuner_XM_Category_Next/Prev	D	Pulse to change XM tuner categories up/down.
Tuner_Sirius_Category_Channel_Up/Down	D	Pulse to change SIRIUS tuner channels up/down.
Tuner_Sirius_Category_Next/Prev	D	Pulse to change SIRIUS tuner categories up/down.
MR_*_Power_On/Off/Toggle	D	Pulse to change power state for the desired multi-room.
MR_*_Input_*	D	Pulse to change the input for the desired multi-room.
MR_*_Volume_Up/Down	D	Pulse to change volume level for the desired multi-room.
MR_*_Audio_Mute_On/Off/Toggle	D	Pulse to turn the audio mute on and off for the desired multi-room.
MR_*_Volume_Variable/Fixed	D	Pulse to set the volume to variable/fixed for the desired multi-room.
MR_A_Stereo/Mono	D	Pulse to set the multi-room a to stereo or mono.
MR_*_Sleep_Timer_Off	D	Pulse to set the sleep timer to off for the desired multi-room.
MR_*_Sleep_Timer_*min	D	Pulse to set the sleep timer in minutes for the desired multi-room.
MR_*_Sleep_Cycle	D	Pulse to step between the sleep timer settings for the desired multi-room.
MR_A_Tuner_Mode_Auto_Stereo/Mono/Toggle	D	Pulse to set the tuner mode to auto stereo or mono for multi-room a.
MR_*_Tuner_Freq_Up/Down	D	Pulse to change the tuner frequency up or down for the desired multi-room.
MR_*_Tuner_Auto_Up/Down/Stop	D	Pulse to start and stop the tuner auto frequency for the desired multi-room.
MR_*_Preset_Up/Down	D	Pulse to change the tuner preset up/down for the desired multi-room.
MR_*_Tuner_Preset_Scan_Start/Stop	D	Pulse to start/stop the tuner preset scan for the desired multi-room.
MR_*_Tuner_Key*	D	Pulse to direct enter the tuner key for the desired multi-room.
MR_*_Tuner_Preset_Num_Call	D	Pulse to direct enter the tuner preset for the desired multi-room.
MR_*_Tuner_Freq_Num_Direct_Set	D	Pulse direct enter the frequency number for the desired multi-room.
MS_A_Power_On/Off/Toggle	D	Pulse to turn the multi-speaker a on and off.
MS_A_Volume_Up/Down	D	Press and hold to adjust the volume for the multi-speaker a.
MS_A_Audio_Mute_On/Off/Toggle	D	Pulse to turn the audio mute on and off for the multi-speaker a.

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MS_A_Volume_Variable/Fixed	D	Pulse to change volume variable/fixed state for multi-speaker a.
Auto_Status_On/Off	D	Pulse to set auto status on/off.
From_Device	S	Serial signal to be routed from a 2 way serial com port.

FEEDBACK:

Power_Is_On/Off	D	High to indicate main power state of unit.
Global_Power_Is_Off	D	High to indicate that main and all zones are off.
Video_Input_Is_*	D	High to indicate current video input selected on unit.
Audio_Input_Is_*	D	High to indicate current audio input selected on unit.
Input_Is_Analog/Digital/HDMI	D	High to indicate that the signal type for the currently selected audio input.
Volume_Gauge	A	Analog value indicating the current main zone volume level.
Volume_Text	S	Serial string representing volume level.
Audio_Mute_Is_On/Off	D	High to indicate current main volume mute state.
Attenuation_Is_On/Off	D	High to indicate current attenuation on state.
Bass/Treble_Gauge	A	Analog value to indicate current bass/treble level.
Bass/Treble_Text	S	Serial string representing bass/treble level.
Video_Mute_Is_On/Off	D	High to indicate current video mute on/off state.
IP_Converter_Enabled/Disabled	D	High to indicate current IP converter on/off state.
HDMI_Out1/Out2_is_Selected	D	High to indicate the current HDMI 1 or 2 output state.
HDMI_Audio_Enabled/Through_Is_On	D	High to indicate HDMI audio state.
Display_Function_Is_On	D	High to indicate the current front display function state.
Display_Surround_Mode_Is_On	D	High to indicate the current front display surround mode state.
Display_Auto_Off_Selected	D	High to indicate the front display's auto/off state.
Display_Is_Off	D	High to indicate the front display's off state.

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Frontkey_Is_Locked/Unlocked	D	High to indicate the display's front panel lock state.
Speaker_A/B_Is_On/Off	D	High to indicate speaker A and B on/off state.
Sleep_Timer_Is_Off	D	High to indicate the sleep timer is off.
Sleep_Timer_Gauge	A	Analog value indicating the sleep timer's value in minutes.
Sleep_Text	S	Serial string data representing sleep time.
Night_Mode_Auto_Selected/On/Off	D	High to indicate night mode auto is selected.
M-Dax_Is_High/Low/Off	D	High to indicate the current M-Dax state.
EQ_Mode_Is_Off	D	High to indicate EQ mode is off.
EQ_Mode_*_Selected	D	High to indicate current EQ mode.
DC_Trigger_1_Is_On/Off	D	High to indicate DC trigger 1 is on/off.
HT-EQ_Is_On/Off	D	High to indicate HT-EQ mode is on/off.
Bilingual_Main/Sub/Main+Sub_Is_Selected	D	High to indicate the current bilingual state.
Setup_Menu_Is_On/Off	D	High to indicate setup menu on/off state.
Surround_Is_*	D	High to indicate surround mode selected.
Dolby_Headphone_*_Is_Selected	D	High to indicate Dolby Headphone mode selected.
Test_Tone_Is_On/Off	D	High to indicate test tone on/off state.
Test_Tone_Auto/Manual_Mode_Selected	D	High to indicate test tone auto or manual mode selected.
Test_Tone_*_Channel_Is_On	D	High to indicate test tone channel state.
Lip_Sync_Is_On/Off	D	High to indicate lip sync on/off state.
Lip_Sync_Gauge	A	Analog value representing current lip sync delay value.
Lip_Sync_Text	S	Serial string representing current lip sync delay value.
Lip_Sync_Auto_Enabled/Disabled	D	High to indicate lip sync auto enabled/disabled
Tuner_Mode_Auto_Stereo/Mono_Selected	D	High to indicate tuner mode auto stereo or mono selected.
Tuner_Mode_Mono_Selected	D	High to indicate tuner mode mono selected.

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Tuner_Frequency_FM/AM	A	Analog value indicating current FM and AM tuner frequency.
Tuner_Frequency_Or_Channel_Text	S	Serial string representing frequency or channel.
Tuner_Preset_Number	A	Analog value representing current preset value.
Tuner_Preset_Info_Is_On/Off	D	High to indicate preset info on/off state.
Tuner_Key_In_Value	A	Analog value indicating current tuner key input value.
Tuner_XM_Category_Num_Text	S	Serial string representing XM category number.
Tuner_XM_Category_In_Search	D	High to indicate XM tuner category in search state.
Tuner_XM_Category_Text	S	Serial string representing XM category.
Tuner_XM_Channel_Text	S	Serial string representing XM channel.
Tuner_XM_Artist_Text	S	Serial string representing XM artist.
Tuner_XM_Song_Text	S	Serial string representing XM song.
XM_Check_Antenna	D	High to indicate XM tuner antenna needs to be checked.
XM_Satellite_Signal_Strength_Gauge	A	Analog value indicating the current signal strength of the XM antenna.
Tuner_Sirius_Category_Num_Text	S	Serial string representing Sirius category number.
Tuner_Sirius_Category_In_Search	D	High to indicate Sirius tuner category in search state.
Tuner_Sirius_Category_Text	S	Serial string representing Sirius category.
Tuner_Sirius_Channel_Text	S	Serial string representing Sirius channel.
Tuner_Sirius_Artist_Text	S	Serial string representing Sirius artist.
Tuner_Sirius_Song_Text	S	Serial string representing Sirius song.
Sirius_Check_Antenna	D	High to indicate Sirius tuner antenna needs to be checked.
Sirius_Satellite_Signal_Strength_Gauge	A	Analog value indicating the current signal strength of the Sirius antenna.
Sirius_Terrestrial_Check_Antenna	D	High to indicate Sirius tuner antenna needs to be checked.
Sirius_Terrestrial_Signal_Strength_Gauge	A	Analog value indicating the current signal strength of the Sirius antenna.
Tuner_Busy_On_Main	D	High to indicate tuner busy.

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MR_*_Power_Is_On/Off	D	High to indicate the power state for the desired multi-room.
MR_*_Video_Input_*_Selected	D	High to indicate the video input for the desired multi-room.
MR_*_Audio_Input_*_Selected	D	High to indicate audio input for the desired multi-room.
MR_*_Volume_Gauge	A	Analog value indicating the current volume level for the desired multi-room.
MR_*_Volume_Text	S	Serial string representing the volume level for the desired multi-room.
MR_*_Audio_Mute_Is On/Off	D	High to indicate the audio mute state for the desired multi-room.
MR_*_Volume_Variable/Fixed_Selected	D	High to indicate the volume fixed/variable state for the desired multi-room.
MR_A_Stereo/Mono_Selected	D	High to indicate the tuner stereo/mono state for multi-room a.
MR_*_Sleep_Timer_Is_Off	D	High to indicate that the sleep timer is off for the desired multi-room.
MR_*_Sleep_Timer_Gauge	A	Analog value indicating the sleep timer level for the desired multi-room.
MR_*_Sleep_Text	S	Serial string representing the sleep timer level in minutes for the desired multi-room.
MR_A_Tuner_Mode_Auto_Stereo/Mono_Selected	D	High to indicate the tuner mode auto stereo selected for multi-room a.
MR_*_Tuner_Frequency_FM/AM	A	Analog value indicating zone 1's current fm/am frequency.
MR_*_Tuner_Frequency_Text	S	Serial string representing zone 1's current fm/am freq text.
MR_*_Tuner_Preset_Number	A	Analog value representing zone 1's current preset value.
MR_*_Tuner_Key_In_Value	A	Analog value indicating zone 1's current tuner key input value.
MS_A_Power_Is_On/Off	D	High to indicate that the multi-speaker a power is on/off.
MS_A_Volume_Gauge	A	Analog value indicating that the multi-speaker a volume level.
MS_A_Volume_Text	S	Serial string representing the multi-speaker a volume level.
MS_A_Audio_Mute_Is_On/Off	D	High to indicate the multi-speaker a mute is on/off.
MS_A_Volume_Variable/Fixed_Selected	D	High to indicate the multi-speaker a volume is variable/fixed.
Auto_Status_Is_On/Off	D	High indicating auto status on/off.
Signal_Is_*	D	High to indicate signal state.
Sampling_Is_Out_Range	D	High to indicate sampling out of range state.

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Sampling_Is_*k	D	High to indicate sampling rate in kHz.
Ch_*_Is_On	D	High to indicate channel status.
To_Device	S	Serial signal to be routed to a 2 way serial com port.

TESTING:

OPS USED FOR TESTING:	v4.001.1012
SIMPL WINDOWS USED FOR TESTING:	v2.11.27.00
DEVICE DB USED FOR TESTING:	v26.00.005.00
CRES DB USED FOR TESTING:	v21.02.016.00
SYMBOL LIBRARY USED FOR TESTING:	v648
SAMPLE PROGRAM:	Marantz SR5004 + SR6004 v1.0 Demo PRO2
REVISION HISTORY:	v1.0 – Initial release