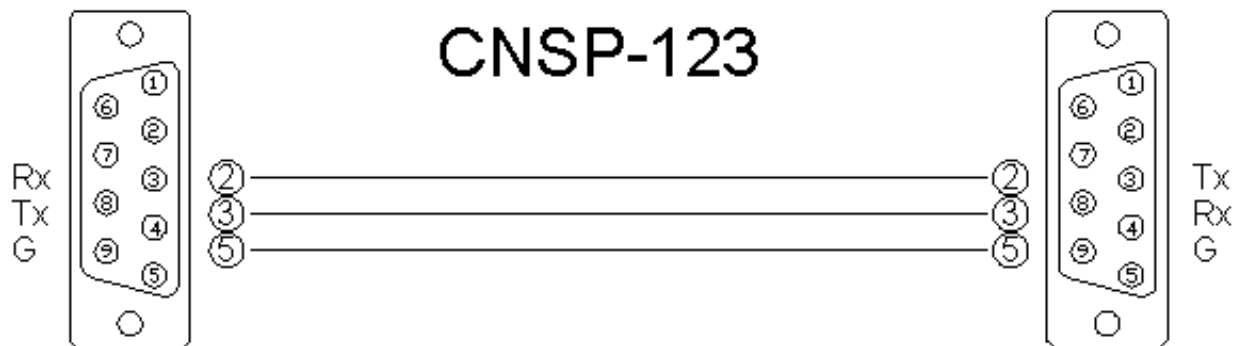


Partner: Marantz  
 Model: SR6003  
 Device Type: AV Surround Receiver



**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Marantz SR6003 v1.0
<b>CATEGORY:</b>	Audio Processor
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	Controls all standard functions and provides true feedback
<b>GENERAL NOTES:</b>	This module will control all of the standard functions on a Marantz SR6003 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.  FM tuning needs 5 digits. XM and Sirius tuners are exclusive. If one is being used the other cannot be used elsewhere.
<b>CRESTRON HARDWARE REQUIRED:</b>	ST-COM, C2I-COM6, C2COM-2/3
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: None 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. PRESETS MUST BE SETUP IN THE UNIT FOR RECALL ONLY FROM PROGRAM.
<b>CABLE DIAGRAM:</b>	CNSP-123



**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**


**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

**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**



Sleep_Timer_Off	D	Pulse to turn main sleep timer off.
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.
Setup_Menu_On/Off/Toggle	D	Pulse to display/hide onscreen menu
Menu_Cursor_*	D	Pulse to navigate menu screen
Surround_Mode_Change_Prev/Next	D	Pulse to change surround modes up/down
Surround_*	D	Pulse to change surround modes discretely
Dolby_Headphone_*	D	Pulse to change the Dolby Headphone mode discretely
Test_Tone_On(Auto_Mode)/Off/Toggle	D	Pulse to change test tone auto mode or off
Test_Tone_Channel_Next/Prev	D	Pulse to change test tone up or down
Lip_Sync_Off	D	Pulse to disable lip sync
Lip_Sync_Up/Down	D	Pulse to adjust lip sync function up/down
Tuner_Mode_Auto_Stereo/Mono/Toggle	D	Pulse to set tuner mode to auto stereo or mono
Tuner_Freq_Up/Down	D	Pulse to change tuner freq up/down
Tuner_Auto_Up/Down/Stop	D	Pulse to scan stop tuner auto scan
Tuner_Preset_Up/Down	D	Pulse to step to the next or previous tuner preset
Tuner_Preset_Scan_Start/Stop	D	Pulse to start or stop scanning the tuiner presets

**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**



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

**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**



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 th emulti-speaker a
MS_A_Audio_Mute_On/Off/Toggle	D	Pulse to turn the audio mute on and off for the multi-speaker a
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

**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**



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
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

**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**



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
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

**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**



<b>Sirius_Satellite_Signal_Strength_Gauge</b>	A	Analog value indicating the current signal strength of the Sirius antenna
<b>Sirius_Terrestrial_Check_Antenna</b>	D	High to indicate Sirius tuner antenna needs to be checked
<b>Sirius_Terrestrial_Signal_Strength_Gauge</b>	A	Analog value indicating the current signal strength of the Sirius antenna
<b>Tuner_Busy_On_Main</b>	D	High to indicate tuner busy
<b>MR_*_Power_Is_On/Off</b>	D	High to indicate the power state for the desired multi-room
<b>MR_*_Video_Input_*_Selected</b>	D	High to indicate the video input for the desired multi-room
<b>MR_*_Audio_Input_*_Selected</b>	D	High to indicate audio input for the desired multi-room
<b>MR_*_Volume_Gauge</b>	A	Analog value indicating the current volume level for the desired multi-room
<b>MR_*_Volume_Text</b>	S	Serial string representing the volume level for the desired multi-room
<b>MR_*_Audio_Mute_Is On/Off</b>	D	High to indicate the audio mute state for the desired multi-room
<b>MR_*_Volume_Variable/Fixed_Selected</b>	D	High to indicate the volume fixed/variable state for the desired multi-room
<b>MR_A_Stereo/Mono_Selected</b>	D	High to indicate the tuner stereo/mono state for multi-room a
<b>MR_*_Sleep_Timer_Is_Off</b>	D	High to indicate that the sleep timer is off for the desired multi-room
<b>MR_*_Sleep_Timer_Gauge</b>	A	Analog value indicating the sleep timer level for the desired multi-room
<b>MR_*_Sleep_Text</b>	S	Serial string representing the sleep timer level in minutes for the desired multi-room
<b>MR_A_Tuner_Mode_Auto_Stereo/Mono_Selected</b>	D	High to indicate the tuner mode auto stereo selected for multi-room a
<b>MR_*_Tuner_Frequency_FM/AM</b>	A	Analog value indicating zone 1's current fm/am frequency
<b>MR_*_Tuner_Frequency_Text</b>	S	Serial string representing zone 1's current fm/am freq text
<b>MR_*_Tuner_Preset_Number</b>	A	Analog value representing zone 1's current preset value
<b>MR_*_Tuner_Key_In_Value</b>	A	Analog value indicating zone 1's current tuner key input value
<b>MS_A_Power_Is_On/Off</b>	D	High to indicate that the multi-speaker a power is on/off
<b>MS_A_Volume_Gauge</b>	A	Analog value indicating that the multi-speaker a volume level
<b>MS_A_Volume_Text</b>	S	Serial string representing the multi-speaker a volume level



**Partner: Marantz**  
**Model: SR6003**  
**Device Type: AV Surround Receiver**



<b>MS_A_Audio_Mute_Is_On/Off</b>	D	High to indicate the multi-speaker a mute is on/off
<b>MS_A_Volume_Variable/Fixed_Selected</b>	D	High to indicate the multi-speaker a volume is variable/fixed
<b>Auto_Status_Is_On/Off</b>	D	High indicating auto status on/off
<b>Signal_Is_*</b>	D	High to indicate signal state
<b>Sampling_Is_Out_Range</b>	D	High to indicate sampling out of range state
<b>Sampling_Is_*k</b>	D	High to indicate sampling rate in kHz
<b>Ch_*_Is_On</b>	D	High to indicate channel status
<b>To_Device</b>	S	Serial signal to be routed to a 2 way serial com port

### TESTING:

<b>OPS USED FOR TESTING:</b>	4.001.1012
<b>SIMPL WINDOWS USED FOR TESTING:</b>	2.11.10
<b>CRESTRON DB USED FOR TESTING:</b>	20.04.008.00
<b>DEVICE DB USED FOR TESTING:</b>	20.07.005.00
<b>SAMPLE PROGRAM:</b>	Marantz SR6003 v1.0 Demo Pro2
<b>REVISION HISTORY:</b>	v 1.0