

**Partner: Sony**  
**Model: STR-DA5500ES**  
**Device Type: AV Receiver**

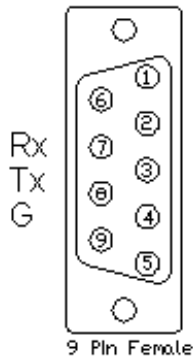

**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Sony STR-DA5500ES v1.1
<b>CATEGORY:</b>	Receiver/Processor
<b>VERSION:</b>	1.1
<b>SUMMARY:</b>	Controls power, volume, input select and surround mode select, and displays true feedback.
<b>GENERAL NOTES:</b>	<p>This module will control all available RS232 functions on a Sony STR-DA5500ES AV surround receiver. Discrete power on/off, volume adjust/mute, input select, and surround mode select functions are included. True feedback is provided for power state, input selected, surround mode status, and volume status.</p> <p>The Sony STR-DA5500ES surround sound receiver is a three-zone receiver. The receiver can accept commands every 100ms. The zones on this module are referred to Main, Zone_2 and Zone_3.</p> <p>The zones are independently controllable. Only the Main zone's volume level will be displayed on the receiver's front panel. Surround modes are only selected for the Main zone. The Main zone has all input selections available to it. Zones 2 and 3 cannot select the multi-channel inputs, or the Phono input. The user may set Zone 2 or 3 to select the same input as the Main zone by selecting the "Source" input.</p> <p>The tuner has two tuning modes: Auto and Manual. Auto tuning mode is the default setting. When in Auto tuning mode, a "Tune_Stop" button is necessary for proper operation of the auto tuning functions. Manual tuning mode does not use the "Tune_Stop" button. When using the tuner in auto tuning mode the receiver is polled continuously. Some feedback will disappear during the tuning up or down. The feedback will return after "Tune Stop" is pressed.</p> <p>The unit will be polled for it's status after any function is triggered on this module. If it is desired to poll the unit at other times, you can assert the Poll_Enable input. This will cause the unit to be polled every 60 seconds.</p> <p>Note that for controlling the receiver's 12V trigger, the 12V trigger on the STR-DA5500ES has to be set for RS-232 control.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	2-Series Processor, C2COM3
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	None
<b>VENDOR SETUP:</b>	Serial control must be enabled by going into the Sony On-Screen Menu, selecting Settings->System->Installer Mode and set the control mode to RS232C.
<b>CABLE DIAGRAM:</b>	CNSP-124

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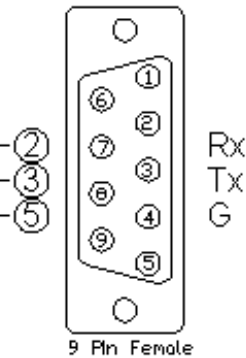


Rear View of Connector



# CNSP-124

Rear View of Connector



## CONTROL:

<b>Main_Power_&lt;On/Off/Toggle&gt;</b>	D	Pulse to send power commands for main zone.
<b>Zone_2_Power_&lt;On/Off/Toggle&gt;</b>	D	Pulse to send power commands for zone 2.
<b>Zone_3_Power_&lt;On/Off/Toggle&gt;</b>	D	Pulse to send power commands for zone 3.
<b>Main_12V_Trigger_&lt;On/Off/Toggle&gt;</b>	D	Pulse to send commands to control the main zone 12V trigger.
<b>Zone_2_12V_Trigger_&lt;On/Off/Toggle&gt;</b>	D	Pulse to send commands to control the zone 2 12V trigger.
<b>Zone_3_12V_Trigger_&lt;On/Off/Toggle&gt;</b>	D	Pulse to send commands to control the zone 3 12V trigger.
<b>Main_Input_*</b>	D	Pulse to select input for main zone.
<b>Zone_2_Input_*</b>	D	Pulse to select input for zone 2.
<b>Zone_3_Input_*</b>	D	Pulse to select input for zone 3.
<b>Main_Vol_&lt;Up/Down&gt;</b>	D	Press to adjust main zone volume level.
<b>Main_Vol_Mute_&lt;On/Off&gt;</b>	D	Pulse to turn main zone mute on or off.
<b>Zone_2_Vol_*</b>	D	Press to adjust zone 2 volume level.
<b>Zone_2_Vol_Mute_&lt;On/Off&gt;</b>	D	Pulse to turn zone 2 mute on or off.
<b>Zone_3_Vol_*</b>	D	Press to adjust zone 3 volume level.
<b>Zone_3_Vol_Mute_&lt;On/Off&gt;</b>	D	Pulse to turn zone 3 mute on or off.

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<b>Surround_*</b>	D	Pulse to select the desired surround mode.
<b>Tune_*</b>	D	Pulse to trigger tuner control functions.
<b>Control_&lt;AM/FM/Sirius/XM&gt;_Tuner</b>	D	Pulse to select the tuner to be controlled.
<b>Preset_&lt;Up/Dn&gt;</b>	D	Pulse to scroll up or down through Sirius or XM presets.
<b>Category_&lt;Up/Dn&gt;</b>	D	Pulse to scroll through the available Sirius or XM categories.
<b>Category_Mode</b>	D	Pulse to select Sirius or XM category "All" or "One".
<b>Key_*</b>	D	Pulse these signals to directly select a Sirius/XM/AM/FM channel or frequency.
<b>Preset_*</b>	D	Pulse to send the preset selected command for Sirius/XM/AM/FM, and requests the preset name. NOTE: For AM/FM tuner, only presets 1-10 can be recalled. XM/Sirius can recall presets 1-30.
<b>GUI_Toggle</b>	D	Pulse to enable or disable GUI mode.
<b>Menu</b>	D	Pulse to enable/disable menu.
<b>Display</b>	D	Press to display the current status of the receiver. While in GUI mode, this will display the menu on the TV screen.
<b>Cursor_&lt;Up/Down/Left/Right&gt;</b>	D	Pulse to select menu items.
<b>Enter</b>	D	Pulse to enter the menu item that was selected by pulsing the Cursor_<Up/Down/Left/Right> signals.
<b>Return</b>	D	Pulse to return to the previous menu while the menu is displayed.
<b>Option</b>	D	Pulse to display and select items from option menus if available.
<b>Quickclick</b>	D	Use to control components or lighting connected to the receiver.
<b>HDMI_Out_&lt;A/B/A+B&gt;</b>	D	Pulse to select the HDMI output.
<b>Poll_Enable</b>	D	Polls the receiver for input, volume level, volume mute, power, tuner frequency, tuner band, preset number, preset name, surround mode, and 12v trigger, for all zones
<b>From_Device</b>	S	Serial signal to be routed from an RS-232C port

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**FEEDBACK:**

Main_Power_Is_<On/Off>	D	Indicates main zone power status.
Zone_2_Power_Is_<On/Off>	D	Indicates zone 2 power status.
Zone_3_Power_Is_<On/Off>	D	Indicates zone 3 power status.
Main_12V_Trigger_Is_<On/Off>	D	Indicates main zone 12V trigger status.
Zone_2_12V_Trigger_Is_<On/Off>	D	Indicates zone 2 12V trigger status.
Zone_3_12V_Trigger_Is_<On/Off>	D	Indicates zone 3 12V trigger status.
Main_Input_Is_*	D	Indicates input selected for main zone.
Zone_2_Input_Is_*	D	Indicates input selected for zone 2.
Zone_3_Input_Is_*	D	Indicates input selected for zone 3.
Main_Vol_Gauge	A	Indicates main volume value for gauge on touchpanel.
Main_Vol_Mute_Is_<On/Off>	D	Indicates main volume mute status.
Zone_2_Vol_Gauge	A	Indicates zone 2 volume value for gauge on touchpanel.
Zone_2_Vol_Mute_Is_<On/Off>	D	Indicates zone 2 volume mute status.
Zone_3_Vol_Gauge	A	Indicates zone 3 volume value for gauge on touchpanel.
Zone_3_Vol_Mute_Is_<On/Off>	D	Indicates zone 3 volume mute status.
Surround_Is_*	D	Indicates surround mode selected.
Frequency_Request	A	Value displaying direct channel/frequency being requested.
Frequency_Current	A	Indicates frequency selected.
Tune_<Manual/Auto>_Active	D	Indicates tuner manual or auto status.
Tuning_<Up/Down>	D	Indicates tuner searching up or down.
Tune_<AM/FM>_Active	D	Indicates terrestrial tuner in AM or FM mode.
Preset_Is_*	D	Indicates currently selected Sirius/XM/AM/FM preset.
Preset_Number_Text	S	Displays currently selected Sirius/XM/AM/FM preset number.

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<b>Preset_Name_Text</b>	S	Displays currently selected Sirius/XM/AM/FM preset name.
<b>XM_*</b>	D	XM status feedback.
<b>XM_*_Text</b>	S	Displays XM current Channel/Category/Artist/Song Title information.
<b>Sirius_*</b>	D	Sirius status feedback.
<b>Sirius_*_Text</b>	S	Displays Sirius current Channel/Category/Artist/Song Title/Composer information.
<b>To_Device</b>	S	Serial data signal to be routed to a 2 way com port.

### TESTING:

<b>OPS USED FOR TESTING:</b>	v4.001.1012
<b>SIMPL WINDOWS USED FOR TESTING:</b>	v2.11.27
<b>DEVICE DB USED FOR TESTING:</b>	v26.00.005.00
<b>CRES DB USED FOR TESTING:</b>	v21.02.015.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	v648
<b>SAMPLE PROGRAM:</b>	Sony STR-DA5500ES v1.1.smw
<b>REVISION HISTORY:</b>	v1.0 – Original release. v1.1 – Added menu functions.