

**SIMPLWINDOWS NAME:** Linn AV5103 System Controller

**CATEGORY:** Processor

**VERSION:** 1.0

**SUMMARY:** Controls Volume, Stereo Balance, Center Speaker Balance, Rear Speaker Balance, SubWoofer Balance, Initialize Settings from the AV5103, input selection & surround sound selection.

**GENERAL NOTES:** This module will control a LinnAV5103 System Controller. It allows for input selections, volume and balance controls, surround sound selection, and standby on/off. This module provides real feedback from the LinnAV5103. Feedback on buttons varies from 0s to 3s due to operation of LinnAV5103.

Note that some adjustments, such as center/rear/subwoofer balance will not function in certain surround sound modes.

For recording controls please use Linn AV5103 Recording Functions.umc

**CRESTRON HARDWARE REQUIRED:** ST-COM, CNXCOM

**SETUP OF CRESTRON HARDWARE:** Baud Rate -9600  
Parity - Even  
Data Bits - 7  
Stop Bits - 1

**VENDOR FIRMWARE:** None

**VENDOR SETUP:** This cable uses a 4-way cable, an RJ11 connector and a 9-way D-type female connector.

Linn	to	Crestron
RJ11	to	9 pin female D
No pin	to	No Connection
Pin2	to	Pin2
Pin3	to	Pin3
Pin4	to	No Connection
Pin5	to	Pin5
No pin	to	No Connection

\*\*An insulated wire link should be used to join together pins 4 and 6, and also pins 7 and 8 of the D-type connector.

**CABLE NUMBER:** T.B.D.

**CONTROL:**

<b>STANDBY_ON</b>	D	Pulse to put LinnAV5103 into standby mode
<b>STANDBY_OFF</b>	D	Pulse to put LinnAV5103 into standby mode
<b>OSG_ON</b>	D	Pulse to enable on screen graphics
<b>OSG_OFF</b>	D	Pulse to disable on screen graphics
		Pulse to normalize current

<b>NORMALIZES_CURRENT_SOURCE</b>	D	source
<b>CLEAR_RS232_COMM_BUFFER</b>	D	Pulse to clear LinnAV5103 RS232 buffer
<b>CLEAR_ALL_RECORD_PATHS</b>	D	Pulse to clear all record paths
<b>SEL_STEREO_MODE</b>	D	Pulse to select stereo mode
<b>SEL_STEREO_W/ SUBWOOFER_MODE</b>	D	Pulse to select stereo w/subwoofer mode
<b>SEL_PROLOGIC_MODE</b>	D	Pulse to select prologic mode
<b>SEL_PROLOGIC_PHANTOM</b>	D	Pulse to select prologic phantom mode
<b>SEL_PROLOGIC3_STEREO_MODE</b>	D	Pulse to select prologic3 stereo mode
<b>SEL_LIMBIK3_MODE</b>	D	Pulse to select limbik3 mode
<b>SEL_LIMBIK5_MODE</b>	D	Pulse to select limbik5 mode
<b>SEL_AC3_MODE</b>	D	Pulse to select AC3 mode
<b>SEL_AC3_PHANTOM_MODE</b>	D	Pulse to select AC3 phantom mode
<b>SEL_AC3_3_STEREO_MODE</b>	D	Pulse to select AC3 stereo mode
<b>SEL_PARTY_MODE</b>	D	Pulse to select party mode
<b>VOLUME_UP</b>	D	Press to raise volume
<b>VOLUME_DOWN</b>	D	Press to lower volume
<b>MUTE_ON</b>	D	Press to mute volume
<b>MUTE_OFF</b>	D	Press to un-mute volume
<b>MUTE_TOGGLE</b>	D	Press to toggle mute
<b>REAR_SPKR_BAL_+</b>	D	Press to raise rear speaker balance
<b>REAR_SPKR_BAL_-</b>	D	Press to lower rear speaker balance
<b>CNTR_SPKR_BAL_+</b>	D	Press to raise center speaker balance
<b>CNTR_SPKR_BAL_-</b>	D	Press to lower center speaker balance
<b>STEREO_BAL_+</b>	D	Press to raise stereo balance
<b>STEREO_BAL_-</b>	D	Press to lower stereo balance
<b>SUBWOOF_SPKR_BAL_+</b>	D	Press to raise subwoofer speaker balance
<b>SUBWOOF_SPKR_BAL_-</b>	D	Press to lower subwoofer speaker balance
<b>ANALOG_AUDIO_INPUT_1-10</b>	D	Press to select analog audio inputs 1 through 10
<b>DIGITAL_AUDIO_INPUT_1-5</b>	D	Press to select digital audio inputs 1 through 5
<b>DISCONNECT_CURRENT_AUDIO_SOURCE</b>	D	Press to disconnect the currently selected audio source
<b>COMP_VIDEO_1-8</b>	D	Press to select composite video inputs 1 through 8
<b>POLL</b>	D	Pulse to poll the current volume/balance settings on AV5103
<b>SVHS_VIDEO_1-2</b>	D	Press to select svideo inputs 1 through 2

Press to disconnect the

<b>DISCONNECT_CURRENT_VIDEO_SOURCE</b>	D	currently selected video source
<b>ANALOG_INPUT_1-10_NAME</b>	P	Text entry for displaying analog devices on a Crestron panel
<b>DIGITAL_INPUT_1-5_NAME</b>	P	Text entry for displaying digital devices on a Crestron panel
<b>COMPOSITE_INPUT_1-8</b>	P	Text entry for displaying composite devices on a Crestron panel
<b>SVHS_INPUT_1-2</b>	P	Text entry for displaying svideo inputs 1 through 2
<b>LINN_RX\$</b>	S	Serial signal to be routed to a 2 way RS232 port

## FEEDBACK:

<b>STANDBY_ON_FB</b>	D	Feedback for putting LinnAV5103 into standby mode
<b>STANDBY_OFF_FB</b>	D	Feedback for taking LinnAV5103 out of standby mode
<b>OSG_ON_FB</b>	D	Feedback for enabling on screen graphics
<b>OSG_OFF_FB</b>	D	Feedback for disabling on screen graphics
<b>SEL_STEREO_MODE_FB</b>	D	Feedback for selecting stereo mode
<b>SEL_STEREO_W/SUBWOOFER_MODE_FB</b>	D	Feedback for selecting stereo w/subwoofer mode
<b>SEL_PROLOGIC_MODE_FB</b>	D	Feedback for selecting prologic mode
<b>SEL_PROLOGIC_PHANTOM_FB</b>	D	Feedback for selecting prologic phantom mode
<b>SEL_PROLOGIC3_STEREO_MODE_FB</b>	D	Feedback for selecting prologic3 stereo mode
<b>SEL_LIMBIK3_MODE_FB</b>	D	Feedback for selecting limbik3 mode
<b>SEL_LIMBIK5_MODE_FB</b>	D	Feedback for selecting limbik5 mode
<b>SEL_AC3_MODE_FB</b>	D	Feedback for selecting AC3 mode
<b>SEL_AC3_PHANTOM_MODE_FB</b>	D	Feedback for selecting AC3 phantom mode
<b>SEL_AC3_3_STEREO_MODE_FB</b>	D	Feedback for selecting AC3 stereo mode
<b>SEL_PARTY_MODE_FB</b>	D	Feedback for selecting party mode
<b>MUTE_ON_FB</b>	D	Feedback for muting volume
<b>MUTE_OFF_FB</b>	D	Feedback for un-muting volume
<b>ANALOG_AUDIO_INPUT_1-10_FB</b>	D	Feedback for selecting analog audio inputs 1 through 10
<b>DIGITAL_AUDIO_INPUT_1-5_FB</b>	D	Feedback for selecting digital audio inputs 1 through 5
		Feedback for disconnecting

<b>CT_CURRENT_AUDIO_SOURCE_FB</b>	D	the currently selected audio source
<b>COMP_VIDEO_1-8_FB</b>	D	Feedback for selecting composite video inputs 1 through 8
<b>SVHS_VIDEO_1-2_FB</b>	D	Feedback for selecting svideo inputs 1 through 2
<b>CT_CURRENT_VIDEO_SOURCE_FB</b>	D	Feedback for disconnecting the currently selected video source
<b>VOLUME_BAR_TO_TOUCHPANEL</b>	A	Route signal to analog feedback of touchpanel
<b>STEREO_BAL_OUT</b>	A	Analog feedback of stereo balance for use with a slider
<b>STEREO_BALANCE_TEXT_FB</b>	S	Indirect text feedback of stereo balance for use with a indirect text field
<b>CENTER_BAL_OUT</b>	A	Analog feedback of center balance for use with a slider
<b>CENTER_BALANCE_TEXT_FB</b>	S	Indirect text feedback of center balance for use with a indirect text field
<b>REAR_BAL_OUT</b>	A	Analog feedback of rear balance for use with a slider
<b>REAR_BALANCE_TEXT_FB</b>	S	Indirect text feedback of rear balance for use with a indirect text field
<b>SUBWOOFER_BAL_OUT</b>	A	Analog feedback of subwoofer balance for use with a slider
<b>SUBWOOFER_BALANCE_TEXT_FB</b>	S	Indirect text feedback of subwoofer balance for use with a indirect text field
<b>SURROUND_SOUND_TEXT_FB</b>	S	Indirect text feedback of surround sound mode status
<b>AUDIO_INPUT_TEXT_FB</b>	S	Indirect text feedback of audio input status
<b>VIDEO_INPUT_TEXT_FB</b>	S	Indirect text feedback of video input status
<b>LINN_TX\$</b>	S	Serial signal to be routed to a 2 way RS232 port

**OPS USED FOR TESTING:** 5.10.11x  
**COMPILER USED FOR TESTING:** SimplWindows Version 1.40.07  
**SAMPLE PROGRAM:** Linn AV5103 Demo Program  
**REVISION HISTORY:** None