

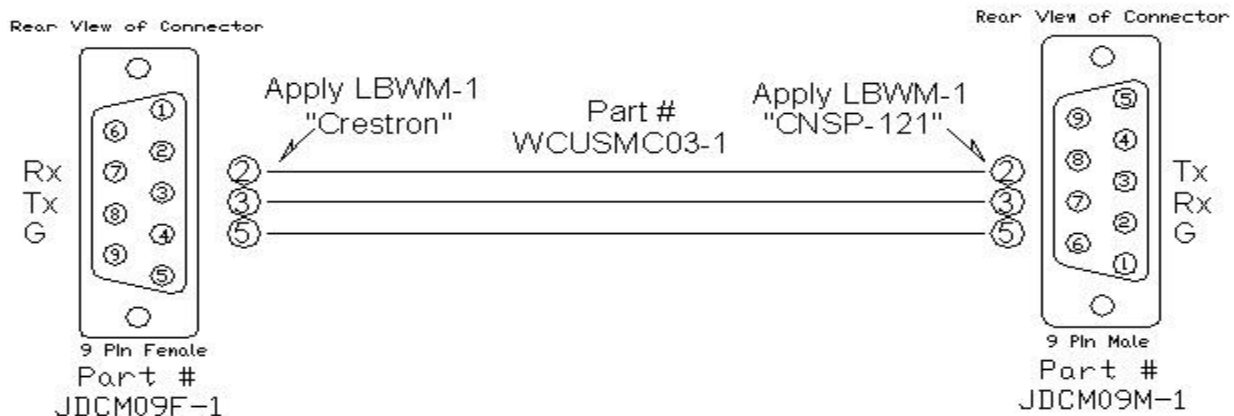
**Partner: Steinway Lyngdorf**  
**Model: P1**  
**Device Type: A/V Receiver**



**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Steinway Lyngdorf P1 v1.0
<b>CATEGORY:</b>	Receiver
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	Controls all of the standard functions and provides true feedback
<b>GENERAL NOTES:</b>	N/A
<b>CRESTRON HARDWARE REQUIRED:</b>	2-Series Processor w/Ethernet port, 3-Series Processor w/Ethernet port
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	v1.5
<b>VENDOR SETUP:</b>	N/A
<b>CABLE DIAGRAM:</b>	CNSP-121

# CNSP-121



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**CONTROL:**

<b>Poll</b>	D	Pulse to Poll System commands. Should Only be used on program startup, or to re-sync system.
<b>Main_Zone_Power_On</b>	D	Pulse to turn on the main theater zone
<b>Main_Zone_Power_Off</b>	D	Pulse to turn off the main theater zone
<b>Main_Zone_Select_Source_X</b>	D	Pulse to select source input in main theater zone
<b>Current_Source_Offset</b>	A	Sets the offset for the current source in the main zone. Valid values are 0d(-10.0db) to 65535d(+10.0db).
<b>Main_Zone_Volume_Up</b>	D	Raises volume in main zone while high
<b>Main_Zone_Volume_Down</b>	D	Lowers Volume in main zone while high
<b>Main_Zone_Volume_Set</b>	A	Sets volume in main zone. Valid values are 0d(-79.5db) to 65535d(+20.0db)
<b>Main_Zone_Volume_Mute_On</b>	D	Mutes main zone volume on rising edge of input
<b>Main_Zone_Volume_Mute_Off</b>	D	Unmutes Main zone volume on rising edge of input
<b>Main_Zone_Volume_Mute_Toggle</b>	D	Toggles main zones mute status on rising edge of input
<b>Audio_Mode_CategoryX_Select</b>	D	Selects the desired Mode Category from the available and configured modes
<b>Audio_Mode_Category_Set</b>	A	Directly selects the Audio Mode Category from the available and configured modes Valid values are 0d-8d
<b>Audio_Mode_Next</b>	D	Selects next available audio mode on the rising edge of the input
<b>Audio_Mode_Previous</b>	D	Selects the previous available audio mode on the rising edge of the input
<b>Audio_Mode_X_Select</b>	D	Directly selects audio mode on the rising edge of the input
<b>Voicing_Preset_Next</b>	D	Selects the next available voicing preset
<b>Voicing_Preset_Previous</b>	D	Selects the previous available voicing preset
<b>Voicing_PresetX_Select</b>	D	Directly selects voicing preset
<b>LipSync_+</b>	D	Increase lip sync time

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LipSync_-	D	Decrease lip sync time
RoomPerfect_Focus_Point_+	D	Selects next available roomperfect focus point
RoomPerfect_Focus_Point_-	D	Selects Previous available roomperfect focus point
RoomPerfect_Focus_PointX	D	Directly selects roomperfect focus point
Dolby_PLII_Center_Width_X	D	Sets Dolby PLII center width distance setting
Dolby_PLII_Panaroma_On/Off	D	Sets Dolby PLII Panaroma either on or off on rising edge
Dolby_PLII_Dimension_Control_X	D	Sets Dolby PLII Dimensions from -3 to +3
Dolby_Digital_Dynamics_X	D	Sets Dolby Digital Dynamics to Auto, Off or On on rising edge
Dolby_TrueHD_Dynamics_X	D	Sets Dolby TrueHD Dynamics to Auto, Off or On on rising edge
DTS_Neo6_GainX	D	Sets gain for DTS Neo6 on rising edge
DTS_Neo6_Wide_X	D	Sets DTS Neo6 wide settings on or off on rising edge
Zone2_Power_On	D	Turns on zone 2 on the rising edge
Zone2_Power_Off	D	Turns off zone 2 on the rising edge
Zone2_Select_SourceX	D	Selects source to zone 2 on the rising edge
Zone2_Volume_Up	D	Raises volume in zone 2 while input is high
Zone2_Volume_Down	D	Lowers volume in zone 2 while input is high
Zone2_Volume_Set	A	Directly sets the volume of zone 2
Zone2_Volume_Mute_On	D	Mutes zone 2 on the rising edge
Zone2_Volume_Mute_Off	D	Unmutes zone 2 on the rising edge
Zone2_Volume_Mute_Toggle	D	Toggles the state of zone 2 mute on the rising edge
TriggerX_Set_to_0V	D	Sets the associated trigger to output 0v on the rising edge
TriggerX_Set_to_6V	D	Sets the associated trigger output to 6v on the rising edge
TriggerX_Set_to_12v	D	Sets the associated trigger output to 12v on the rising edge
TriggerX_Set_to_Configured_Leves	D	Sets the associated trigger output to configured voltage level on the rising edge

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TriggerX_Disable	D	Disables the associated trigger on the rising edge
Button_X	D	Sends the associated button number press to the P1 on the rising edge. Used within the installer tools
Up	D	Replicates the up button press on the installer remote on the rising edge
Down	D	Replicates the down button press on the installer remote on the rising edge
Left	D	Replicates the left button press on the installer remote on the rising edge
Right	D	Replicates the right button press on the installer remote on the rising edge
Enter	D	Replicates the enter button press on the installer remote on the rising edge
Back	D	Replicates the back button press on the installer remote on the rising edge
Menu	D	Replicates the menu button press on the installer remote on the rising edge
Info	D	Replicates the info button press on the installer remote on the rising edge
RX\$	S	Receive data from the device

### FEEDBACK:

System_Standby_FB	D	Indicates that both main theater zone and zone2 are off
Main_Zone_On_FB	D	Indicates that the main theater zone is on
Main_Zone_Off_FB	D	Indicates that the main theater zone is off
Main_Zone_Powering_On	D	Indicates that the main zone is powering on. Device may not respond to commands while this output is high
Main_Zone_Source_X_Selected	D	Indicates which configured source is currently active in the main theater zone
Main_Zone_Total_Configured_Sources	A	Indicates the total number of selectable sources in the main theater zone. Can be used to set dynamic list sizes
Main_Zone_Source_X_Name	S	Reports configured name of the associated source from the unit
Main_Zone_Current_Source_String	S	Reports the name of the current source in the main theater zone
Main_Zone_Current_Source_FB	A	Value will indicate the number of the current source in the main theater zone. 0=off

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<b>Main_Zone_Video_Resolution</b>	S	Reports the resolution of the current input in the main theater zone
<b>Main_Zone_Video_Type</b>	S	Reports the video type of the current input in the main theater zone. i=interlaced p=progressive
<b>Main_Zone_Color_Space</b>	S	Reports the color space of the current source in the main theater zone
<b>Main_Zone_Video_Source_Name</b>	S	Reports the actual video source input name of the current video in the main theater zone
<b>Main_Video_Source_FB</b>	A	Indicates the hardware input ID of the current video source in the main theater zone
<b>Main_Zone_Audio_Source_Name</b>	S	Reports the actual audio source input name of the current audio in the main theater zone
<b>Main_Audio_Source_FB</b>	A	Indicates the hardware input ID of the current video source in the main theater zone
<b>Current_Source_Offset_FB</b>	A	Indicates the value of the current source offset. Values will range from 0d(-10.0db) to 65535d(+10.0db)
<b>Current_Source_Offset_String_FB</b>	S	Reports an ASCII representation of the current source offset
<b>Audio_Type_FB</b>	A	Indicates actual hardware code for the selected inputs audio type
<b>Audio_Type_String_FB</b>	S	Reports the ASCII representation of the current inputs audio signal type
<b>Main_Zone_Current_Volume</b>	A	Indicates the actual volume in the main theater zone. Values will range from 0(-79.9db) to 65535d(+20db)
<b>Main_Zone_Current_Volume_String</b>	S	ASCII representation of current volume level in main theater zone
<b>Main_Zone_Volume_Mute_On_FB</b>	D	Indicates that the main theater zone is currently muted. Will remain high as long as the theater zone is muted
<b>Main_Zone_Volume_Mute_Off_FB</b>	D	Indicates that the main theater zone is currently not muted. Will remain high as long as the theater zone is not muted
<b>Audio_Mode_Category_ModeX_Selected</b>	D	Indicates which configured audio mode category has been selected for listening modes
<b>Audio_Mode_Category_FB</b>	A	Analog value which indicates which configured audio mode category has been selected for listening modes
<b>Audio_Mode_Selected_Category_Name_FB</b>	S	ASCII value of the actual selected audio mode category
<b>Total_Configured_Audio_Mode_Categories</b>	A	Indicates the total number of selectable configured audio modes in the main theater zone. Can be used to set dynamic list sizes
<b>Audio_Mode_CategoryX_Name</b>	S	Reports configured name of the associated audio mode category from the unit

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<b>Audio_Mode_X_Selected</b>	D	Indicates the current selected audio mode for sound processing. Will remain high until another audio mode is selected
<b>Audio_Mode_X_Available</b>	D	Indicates that the audio mode for sound processing is available with the current input and configuration. Can be used on digital enable or visibility joins
<b>Voicing_PresetX_Selected</b>	D	Indicated which voicing preset has been selected
<b>Voicing_Preset_FB</b>	A	Reports the decimal value of the selected voicing preset
<b>Total_Configured_Voicing_Presets</b>	A	Indicates the total number of selectable voicing presets in the main theater zone. Can be used to set dynamic list sizes
<b>Voicing_Preset_X_Name</b>	S	Reports the configured name of the associated voicing preset
<b>LipSync_FB</b>	A	Indicates the decimal value of the lip sync delay of the current source. Valid values are 0d(0ms) to 65535d(200ms)
<b>RoomPerfect_Focus_Point_X_Selected</b>	D	Indicates the selected focus point in the main theater zone
<b>RoomPerfect_Focus_Point_FB</b>	A	Reports a decimal value of the currently selected roomperfect focus point
<b>RoomPerfect_Focus_Point_String_FB</b>	S	ASCII name of the selected roomperfect focus point
<b>RoomPerfect_Total_Available_Focus_Points</b>	A	Indicates the total number of selectable configured roomperfect focus points in the main theater zone. Can be used to set dynamic list sizes
<b>RoomPerfect_Focus_Point_X_Name</b>	S	ASCII name of associated roomperfect focus point
<b>Dolby_PLII_Center_Width_X_FB</b>	D	Indicates the current Dolby PLII center width setting in the main theater zone
<b>Dolby_PLII_Panorama_Off_FB</b>	D	Indicates that Dolby PLII panorama mode is off
<b>Dolby_PLII_Panorama_On_FB</b>	D	Indicates that Dolby PLII panorama mode is on
<b>Dolby_PLII_Dimension_Control_X_FB</b>	D	Indicated the current Dolby PLII Dimension control setting in the main theater zone
<b>Dolby_Digital_Dyanmics_X_FB</b>	D	Indicates the current Dolby Digital Dynamics setting in the main theater zone. Can be set to Auto, Off, or On
<b>Dolby_TrueHD_Dyanmics_X_FB</b>	D	Indicates the current Dolby TrueHD Dynamics setting in the main theater zone. Can be set to Auto, Off, or On
<b>DTS_Neo6_GainX_FB</b>	D	Indicates the current DTS Neo6 gain setting in the main theater zone
<b>DTS_Neo6_Wide_Off_FB</b>	D	Indicates that DTS Neo6 wide setting is disabled
<b>DTS_Neo6_Wide_On_FB</b>	D	Indicates that DTS Neo6 wide setting is enabled

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<b>Zone2_On_FB</b>	D	Indicates that zone 2 is on. Will remain high while zone 2 is on
<b>Zone2_Off_FB</b>	D	Indicates that zone 2 is off. Will remain high while zone 2 is off
<b>Zone2_Powering_Up</b>	D	Indicates that zone 2 is powering up. Will remain high until zone 2 is fully on. Unit may not respond to commands while this signal is high
<b>Zone2_Source_X_Selected</b>	D	Indicates selected source in zone 2
<b>Zone2_Total_Configured_Sources</b>	A	Indicates the total number of selectable sources in zone 2. Can be used to set dynamic list sizes
<b>Zone2_Source_X_Name</b>	S	Reports configured name of the associated source from the unit
<b>Zone2_Current_Source_String_FB</b>	S	Reports the name of the current source in the zone 2
<b>Zone2_Current_Source_FB</b>	A	Value will indicate the number of the current source in zone 2. 0=off
<b>Zone2_Current_Video_Input</b>	S	ASCII name of the current video input in zone 2
<b>Zone2_Current_Audio_Input</b>	S	ASCII name of the current audio input in zone 2
<b>Zone2_Volume_FB</b>	A	Indicates the current volume level in zone 2. Range reported is 0d(-96.0) to 65535d(+20.0)
<b>Zone2_Volume_Mute_On_FB</b>	D	Indicates that zone 2 is muted. Will remain high while zone 2 is muted
<b>Zone2_Volume_Mute_Off_FB</b>	D	Indicates that zone 2 is not muted. Will remain high while zone 2 is not muted
<b>TriggerX_0v_FB</b>	D	Indicated that the associated trigger output is set to 0v output. Will remain high while associated trigger output is at 0v output
<b>TriggerX_6v_FB</b>	D	Indicated that the associated trigger output is set to 6v output. Will remain high while associated trigger output is at 6v output
<b>TriggerX_12v_FB</b>	D	Indicated that the associated trigger output is set to 12v output. Will remain high while associated trigger output is at 12v output
<b>TX\$</b>	S	Transmit data to device

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	2-Series: v4.007.0004 3-Series: v1.008.0040.002
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.02.20.00
<b>DEVICE DB USED FOR TESTING:</b>	52.00.007.00
<b>CRES DB USED FOR TESTING:</b>	42.00.004.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	508
<b>SAMPLE PROGRAM:</b>	Steinway Lyngdorf P1 Demo PRO2.smw Steinway Lyngdorf P1 Demo PRO3.smw
<b>REVISION HISTORY:</b>	v1.0 – Original release.