

ZIGEN

HXL-88Plus/HXL-44Plus HDMI 2.0 Video/Audio Matrix Switch



Model: HXL-88Plus/HXL-44Plus

Device Type: AV Switching

Control System: Crestron® 3-Series



GENERAL INFORMATION	
SUMMARY:	Controls video/audio routing and audio tone control for the Zigen HXL-88Plus and HXL-44Plus.
GENERAL NOTES:	<p>All inputs/outputs with names surrounded by square braces are optional, and do not need to have signals defined on them.</p> <p>A SIMPL module is provided that interface with Zigen. Under the hood this SIMPL module uses SIMPL# and the Zigen API over HTTP.</p> <p>Version 2.0.0</p>
CRESTRON® HARDWARE REQUIRED:	3-Series Processor.

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CONTROL		
Init	D	Initializes the module and does an initial poll of current settings. Must be run at startup. May be tied to 1. <i>High/1 (rising edge) = Initialize and Poll</i> <i>Low/0 = No effect</i>
[Poll]	D	Refreshes all outputs on this module with current values in the HXL-44/88Plus (<i>A poll is done once automatically at startup</i>). Generally not needed if Crestron is the only system interfacing with the HXL-44/88Plus.
[Video_Out_1] through [Video_Out_8]	A	Selects the input to be switched to the corresponding output. Valid values are 1–8d on the HXL-88Plus and 1–4d on the HXL-44Plus.
[RCA_Audio_Out_1] through [RCA_Audio_Out_12]	A	Selects the input to be switched to the corresponding RCA output. Valid values are 1–12d on the HXL-88Plus and 1–8d on the HXL-44Plus.
RCA Selectable Audio Settings		
[Select_Output_To_Configure]	A	Selects which RCA Output to apply EQ, and Tone settings to. Also selects which output to display EQ and Tone feedback for. <i>Applies to inputs and outputs in the RCA-Selectable_Audio_Settings section.</i> Valid values are 1–12d on the HXL-88Plus and 1–8d on the HXL-44Plus.
[Tune_Mode_*]	D	Selects EQ/Tone mode for RCA outputs (only). <i>High/1 (rising edge) = Select Tune_Mode</i> <i>Low/0 = No effect</i>
[Preset_*]	D	Tune_Mode_Presets must be selected for these inputs to have effect. <i>High/1 (rising edge) = Select Preset</i> <i>Low/0 = No effect</i>
[Band_*]	A	Tune_Mode_Equalizer must be selected for these inputs to have effect. Equalizer db is adjustable in .25db increments. <i>Valid values are -117d (-11.75db) to 120d (12db)</i>
[Bass] [Treble]	A	Tune_Mode_Tone_Control must be selected for these inputs to have effect. Bass and treble db are adjustable in .25db increments. <i>Valid values are -117d (-11.75db) to 120d (12db)</i>

CONTROL		
[Surround]	D	Enables the Surround Effect on the RCA outputs (only). <i>High/1 = Surround Fx On; Low/0 = Surround Fx Off</i>
[Surround_Toggle]	D	<i>High/1 (rising edge) = Surround Toggle/On/Off</i>
[Surround_On], [Surround Off]	D	<i>Low/0 = No effect</i>
[Surround_Level]	A	Sets the Surround Effect level from narrow (0d) to wide (65535d)
[Bass_Enhancement]	D	Enables Bass Enhancement on the RCA outputs (only). <i>High/1 = Bass_Enhancement On</i> <i>Low/0 = Bass_Enhancement Off</i>
[Bass_Enhancement_Toggle]	D	<i>High/1 (rising edge) = Bass Toggle/On/Off</i>
[Bass_Enhancement_On]	D	<i>Low/0 = No effect</i>
[Bass_Enhancement Off]	D	
[Bass_Enhancement_Level]	A	Sets the Bass Enhancement <i>Valid values are 0 to 65535d</i>
[High_Pass]	D	Enables High Pass filter. 1 = On / 0 = Off
[High_Pass_Toggle]	D	<i>High/1 (rising edge) = High_Pass Toggle/On/Off</i>
[High_Pass_On], [High_Pass_Off]	D	<i>Low/0 = No effect</i>
[Bass_Cut_Freq*]	D	Sets the Low Pass/High Pass (if enabled) cutoff frequency: 80 Hz–225 Hz. <i>High/1 (rising edge) = Select frequency; Low/0 = No effect</i>
RCA Audio Settings Sections		
Sections: RCA_1_Audio_Settings through RCA_12_Audio_Settings		These sections allow discrete control of the 8 RCA outputs on the HXL-44Plus or the 12 RCA outputs on the HXL-88Plus <i>See section above for details on each input.</i>
Advanced		
[Debug_Http_To_Console]	D	Prints http calls to Crestron console for debugging purposes, so calls and responses can be viewed. <i>High/1 = Print http calls to console.</i> <i>Low/0 = Do not print http calls to console.</i>

FEEDBACK		
[Video_Out_F_1] through [Video_Out_F_8]	A	Video input that has been routed to the output.
[RCA_Audio_Out_1] through [RCA_Audio_Out_12]	A	Audio from HDMI input that has been routed to the RCA output.
RCA Selectable Audio Settings		
[Mute]	D	Mutes the RCA outputs (only). <i>High/1 = Mute On; Low/0 = Mute Off</i>
[Mute_Toggle]	D	<i>High/1 (rising edge) = Mute Toggle/On/Off</i>
[Mute_On], [Mute_Off]	D	<i>Low/0 = No effect</i>
[Volume]	A	Sets the volume of the RCA outputs (only). <i>Valid values are 0 to 65535d.</i>
[Volume_Up]	D	High/1 momentary = increment/decrement volume.
[Volume_Down]	D	High/1 held = continuously raise/lower volume.
[Tune_Mode*_F]	D	<i>High/1 = Selected tune mode is active.</i>
[Preset*_F]	D	<i>High/1 = Selected Preset is active.</i>
[Band_*]	A	Current setting of the corresponding Eq Band. <i>Values are -117d (-11.75db) to 120d (12db)</i>
[Band*\$]		Current setting of the corresponding Eq Band (“-11.75” to “12”).
[Bass_F] [Treble_F]	A	Current setting of Bass or Treble. <i>Valid values are -117d (-11.75db) to 120d (12db)</i>
[Surround_F]	D	<i>High/1 = Surround Fx On; Low/0 = Surround Fx Off</i>
[Surround_Level_F]	A	Current Surround Effect level from narrow (0d) to wide (65535d)
[Bass_Enhancement_F]	D	<i>High/1 = Bass Enhancement On Low/0 = Bass Enhancement Off</i>
[Bass_Enhancement_Level]	A	Current Bass Enhancement level <i>Valid values are 0 to 65535d</i>
[High_Pass_F]	D	<i>High/1 = High Pass filter on Low/0 = High Pass filter off</i>
[Bass_Cut_Freq*_F]	D	Selected cutoff frequency: 80 Hz–225 Hz.
RCA Audio Settings Sections		
Sections: RCA_1_Audio_Settings through RCA_12_Audio_Settings		These sections allow discrete control of the 8 RCA outputs on the HXL-44Plus or the 12 RCA outputs on the HXL-88Plus <i>See section above for details on each output.</i>

PARAMETER		
Host_Name		IP Address or DNS Host Name of the SW-41Plus. <i>Format: http://hostname[:port]/</i>
Model		Select HXL-88 Plus or HXL-44 Plus based on which model you are controlling.