

# ZIGEN

## SW-41Plus MKIII (2020) 4 x 1 HDMI 2.0 Switch



**Model:** SW-41Plus MKIII  
**Device Type:** AV Switching  
**Control System:** Crestron® 3-Series



GENERAL INFORMATION	
<b>SUMMARY:</b>	Controls video routing and audio tone control for the Zigen SW-41Plus MKIII.
<b>GENERAL NOTES:</b>	<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 3.0.1</p>
<b>CRESTRON® HARDWARE REQUIRED:</b>	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 SW-41Plus ( <i>this is done once automatically at startup</i> ). Generally not needed if Crestron is the only system interfacing with the SW-41Plus.
[Video_Out]	A	Selects the video source to route to the output. <i>Valid values are 1d to 4d.</i>
[Local Audio]	D	Routes audio from the selected HDMI input to the RCA and SPDIF outputs on the SW-41Plus.
[Arc_Audio]	D	Routes audio back from the display connected to the HDMI output using HDMI ARC (Audio Return Channel).  <i>High/1 (rising edge) = Select Local/Arc</i> <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.
[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>
[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	<b>Tune_Mode_Presets</b> 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	<b>Tune_Mode_Equalizer</b> 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>

CONTROL		
[Bass] [Treble]	A	<b>Tune_Mode_Tone_Control</b> 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>
[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] [Surround_On], [Surround Off]	D D	<i>High/1 (rising edge) = Surround Toggle/On/Off</i> <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] [Bass_Enhancement_On] [Bass_Enhancement Off]	D D D	<i>High/1 (rising edge) = Bass Toggle/On/Off</i> <i>Low/0 = No effect</i>
[Bass_Enhancement_Level]	A	Sets the Bass Enhancement <i>Valid values are 0 to 65535d</i>
[High_Pass] [High_Pass_Toggle] [High_Pass_On], [High_Pass_Off]	D D D	Enables High Pass filter. 1 = On / 0 = Off <i>High/1 (rising edge) = High_Pass Toggle/On/Off</i> <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>

FEEDBACK		
[Video_Out_F]	A	Selected video source that is routed to the output. <i>Valid values are 1d to 4d.</i>
[Local Audio_F]	D	High/1 = Audio from the selected HDMI input has been routed to the RCA and SPDIF outputs.
[Arc_Audio_F]	D	High/1 = Audio from the display connected to the HDMI output using HDMI ARC (Audio Return Channel) has been routed to the RCA and SPDIF outputs.
[Volume_F]	A	Volume level of the RCA outputs. <i>Values are 0 to 65535d.</i>

FEEDBACK		
[Mute_F]	D	High/1 = Mute On Low/0 = Mute Off
[Tune_Mode_*_F]	D	High/1 = Selected tune mode is active.
[Preset_*_F]	D	High/1 = Selected Preset is active.
[Band_*]	A	Current setting of the corresponding Eq Band. Values are -117d (-11.75db) to 120d (12db)
[Band*\$]		Current setting of the corresponding Eq Band ("-11.75" to "12").
[Bass_F] [Treble_F]	A	Current setting of Bass or Treble. Valid values are -117d (-11.75db) to 120d (12db)
[Surround_F]	D	High/1 = Surround Fx On; Low/0 = Surround Fx Off
[Surround_Level_F]	A	Current Surround Effect level from narrow (0d) to wide (65535d)
[Bass_Enhancement_F]	D	High/1 = Bass Enhancement On Low/0 = Bass Enhancement Off
[Bass_Enhancement_Level]	A	Current Bass Enhancement level Valid values are 0 to 65535d
[High_Pass_F]	D	High/1 = High Pass filter on Low/0 = High Pass filter off
[Bass_Cut_Freq*_F]	D	Selected cutoff frequency: 80 Hz–225 Hz.

PARAMETER		
Host_Name		IP Address or DNS Host Name of the SW-41Plus. Format: http://hostname[:port]/