



Crestron Module Documentation for an

Atlona AT-UHD-SW-510W

General Information

<i>Module Name:</i>	<i>Atlona UHD-SW-510W r1.0.umc</i>
<i>Version:</i>	<i>Rev-01</i>
<i>Summary:</i>	<i>This module controls switching and volume for the AT-UHD-SW-510W.</i>
<i>Notes:</i>	

Control

<i>Signal Name</i>	<i>Description</i>
[Video_Mute_On]	<i>Mutes Video outputs</i>
[Video_Mute_Off]	<i>Unmutes Video outputs</i>
[Display_Out_Matrix_Mode]	<i>Puts SW510 into Matrix Switch Mode</i>
[Input_1_USB_C]	<i>Selects input to be sent to output(s)</i>
[Input_2_DP]	<i>Selects input to be sent to output(s)</i>
[Input_3_HDMI]	<i>Selects input to be sent to output(s)</i>
[Input_3_HDMI]	<i>Selects input to be sent to output(s)</i>
[Input_4_HDMI]	<i>Selects input to be sent to output(s)</i>
[Input_5_BYOD]	<i>Selects input to be sent to output(s)</i>

[HDBT_Output_01]	<i>Selects Output to route selected input</i>
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[HDMI_Output_02]	<i>Selects Output to route selected input</i>
[HDBT_Out_01]	<i>Analog Selection of Inputs: 1 USB, 2 DP, 3 HDMI, 4 HDMI, and 5 BYOD</i>
[HDMI_Out_02]	<i>Analog Selection of Inputs: 1 USB, 2 DP, 3 HDMI, 4 HDMI, and 5 BYOD</i>
[HDBT_Input_1_USB_C]	<i>Sends Input to HDBT Out</i>
[HDBT_Input_2_DP]	<i>Sends Input to HDBT Out</i>
[HDBT_Input_3_HDMI]	<i>Sends Input to HDBT Out</i>
[HDBT_Input_4_HDMI]	<i>Sends Input to HDBT Out</i>
[HDBT_Input_5_BYOD]	<i>Sends Input to HDBT Out</i>
[HDMI_Input_1_USB_C]	<i>Sends Input to HDMI Out</i>
[HDMI_Input_2_DP]	<i>Sends Input to HDMI Out</i>
[HDMI_Input_3_HDMI]	<i>Sends Input to HDMI Out</i>
[HDMI_Input_4_HDMI]	<i>Sends Input to HDMI Out</i>
[HDMI_Input_5_BYOD]	<i>Sends Input to HDMI Out</i>
[Display_Out_Mirror_Mode]	<i>Puts SW510 into Mirrored Switch Mode</i>
[All_Out_Input_1_USB_C]	<i>Sends Input to both HDBT and HDMI outputs</i>
[All_Out_Input_2_DP]	<i>Sends Input to both HDBT and HDMI outputs</i>
[All_Out_Input_3_HDMI]	<i>Sends Input to both HDBT and HDMI outputs</i>
[All_Out_Input_4_HDMI]	<i>Sends Input to both HDBT and HDMI outputs</i>
[All_Out_Input_5_BYOD]	<i>Sends Input to both HDBT and HDMI outputs</i>
[USBRouting_Mode_Set_Manual]	<i>Sets the USB routing mode to manual. This is needed to set the USB input 1-4</i>
[USBRouting_Mode_Set_autoswitch]	<i>Sets the USB routing mode to auto</i>
[USBRouting_Mode_Set_follow]	<i>Sets the USB routing mode to follow input</i>

[USBRouting_Input_Set_1]	<i>Sets the USB to input 1</i>
[USBRouting_Input_Set_2]	<i>Sets the USB to input 2</i>
[USBRouting_Input_Set_3]	<i>Sets the USB to input 3</i>
[USBRouting_Input_Set_4]	<i>Sets the USB to input 4</i>
[Audio_Mute_hdmi_ON]	<i>Mutes HDMI Audio</i>
[Audio_Mute_hdmi_Off]	<i>UnMutes HDMI Audio</i>
[Audio_Mute_ON]	<i>Mutes Analog Audio Out</i>
[Audio_Mute_Off]	<i>UnMutes Analog Audio Out</i>
[Audio_Vol_up]	<i>Incremental Volume Up</i>
[Audio_Vol_dn]	<i>Incremental Volume Down</i>
[Volume_slider_press]	<i>Used as a Digital join for Slider to by pass feedback which is slower than slider. Values will update after 3 seconds to real feedback values.</i>
[Audio_vol_level]	<i>Send analog value 0d min and 80d max to set volume level</i>
[Audio_SetSource_digital]	<i>Sets audio source to be sent digitally (HDMI or HDBT)</i>
[Audio_SetSource_analog]	<i>Sets audio source to be sent out the Analog Audio Out</i>
[Display_BYOD_Kick]	<i>Kicks off current BYOD source</i>

[Relay_1_Open]	<i>Opens relay</i>
[Relay_1_Close]	<i>Closes relay</i>
[Relay_2_Open]	<i>Opens relay</i>
[Relay_2_Close]	<i>Closes relay</i>
[CEC_Hdmi_power_on]	<i>Sends CEC Power On command</i>
[CEC_Hdmi_power_off]	<i>Sends CEC Power Off command</i>
[CEC_HDBT_power_on]	<i>Sends CEC Power On command</i>
[CEC_HDBT_power_off]	<i>Sends CEC Power Off command</i>

<p>[Zone_RS232_Power_On]</p>	<p><i>These digital signals are used in conjunction with the Zone command parameters. Once the parameters are set these will pulse the commands from either the RS232 port or over HDBT.</i></p>
<p>[Zone_RS232_Power_Off]</p>	<p><i>These digital signals are used in conjunction with the Zone command parameters. Once the parameters are set these will pulse the commands from either the RS232 port or over HDBT.</i> <i>Connects to TCP/IP/RS-232 receive.</i></p>
<p>[Zone_RS232_Volume_Up]</p>	<p><i>These digital signals are used in conjunction with the Zone command parameters. Once the parameters are set these will pulse the commands from either the RS232 port or over HDBT.</i> <i>Connects to TCP/IP/RS-232 receive.</i></p>
<p>[Zone_RS232_Volume_Down]</p>	<p><i>Sends CEC Power On command</i></p>
<p>[Zone_RS232_Volume_Mute]</p>	<p><i>Sends CEC Power Off command</i></p>
<p>[Zone_HDBT_Power_On]</p>	
	<p><i>These digital signals are used in conjunction with the Zone command parameters. Once the parameters are set these will pulse the commands from either the RS232 port or over HDBT.</i></p>

[Zone_HDBT_Power_Off]	<p><i>These digital signals are used in conjunction with the Zone command parameters. Once the parameters are set these will pulse the commands from either the RS232 port or over HDBT.</i></p> <p><i>Connects to TCP/IP/RS-232 receive.</i></p>
[Zone_HDBT_Volume_Up]	
[Zone_HDBT_Volume_Down]	<p><i>These digital signals are used in conjunction with the Zone command parameters. Once the parameters are set these will pulse the commands from either the RS232 port or over HDBT.</i></p> <p><i>Connects to TCP/IP/RS-232 receive.</i></p>
[Zone_HDBT_Volume_Mute]	
From_Device_rx\$	

Feedback

<i>Signal Name</i>	<i>Description</i>
[Video_Mute_On_fb]	<i>Video is Muted</i>
[Video_Mute_Off_fb]	<i>Video is Unmuted</i>
[Display_Out_Matrix_Mode_fb]	<i>SW510 is in Matrix Switch Mode</i>
[Input_1_USB_C_fb]	<i>Selected input to be sent or sent to output(s)</i>
[Input_2_DP_fb]	<i>Selected input to be sent or sent to output(s)</i>
[Input_3_HDMI_fb]	<i>Selected input to be sent or sent to output(s)</i>
[Input_4_HDMI_fb]	<i>Selected input to be sent or sent to output(s)</i>
[Input_5_BYOD_fb]	<i>Selected input to be sent or sent to output(s)</i>

[HDBT_Output_01_fb]	<i>Selected Output routed to selected input</i>
[HDMI_Output_02_fb]	<i>Selected Output routed to selected input</i>
[HDBT_Out_01_fb]	<i>Feedback for Analog Selection of Inputs: 1 USB, 2 DP, 3 HDMI, 4 HDMI, and 5 BYOD</i>
[HDMI_Out_02_fb]	<i>Feedback for Analog Selection of Inputs: 1 USB, 2 DP, 3 HDMI, 4 HDMI, and 5 BYOD</i>
[HDBT_Input_1_USB_C_fb]	<i>Sent Input to HDBT Out</i>
[HDBT_Input_2_DP_fb]	<i>Sent Input to HDBT Out</i>
[HDBT_Input_3_HDMI_fb]	<i>Sent Input to HDBT Out</i>
[HDBT_Input_4_HDMI_fb]	<i>Sent Input to HDBT Out</i>
[HDBT_Input_5_BYOD_fb]	<i>Sent Input to HDBT Out</i>
[HDMI_Input_1_USB_C_fb]	<i>Sent Input to HDMI Out</i>
[HDMI_Input_2_DP_fb]	<i>Sent Input to HDMI Out</i>
[HDMI_Input_3_HDMI_fb]	<i>Sent Input to HDMI Out</i>
[HDMI_Input_4_HDMI_fb]	<i>Sent Input to HDMI Out</i>
[HDMI_Input_5_BYOD_fb]	<i>Sent Input to HDMI Out</i>
[Display_Out_Mirror_Mode_fb]	<i>SW510 is in Mirrored Switch Mode</i>
[All_Out_Input_1_USB_C_fb]	<i>Input has been sent both to HDBT and HDMI outputs</i>
[All_Out_Input_2_DP_fb]	<i>Input has been sent both to HDBT and HDMI outputs</i>
[All_Out_Input_3_HDMI_fb]	<i>Input has been sent both to HDBT and HDMI outputs</i>
[All_Out_Input_4_HDMI_fb]	<i>Input has been sent both to HDBT and HDMI outputs</i>
[All_Out_Input_5_BYOD_fb]	<i>Input has been sent both to HDBT and HDMI outputs</i>

[USBRouting_Mode_Set_Manual_fb]	<i>Feedback for the USB routing mode being set to manual. This is needed to set the USB input 1-4</i>
[USBRouting_Mode_Set_autoswitch_fb]	<i>Feedback for the Setting of the USB routing mode to auto</i>
[USBRouting_Mode_Set_follow_fb]	<i>Feedback for the setting of the USB routing mode to follow input</i>
[USBRouting_Input_Set_1_fb]	<i>Feedback for setting the USB to input 1</i>
[USBRouting_Input_Set_2_fb]	<i>Feedback for setting the USB to input 2</i>
[USBRouting_Input_Set_3_fb]	<i>Feedback for setting the USB to input 3</i>
[USBRouting_Input_Set_4_fb]	<i>Feedback for setting the USB to input 4</i>
[Audio_Mute_hdmi_ON_fb]	<i>HDMI Audio is Muted</i>
[Audio_Mute_hdmi_Off_fb]	<i>HDMI Audio is UnMuted</i>
[Audio_Mute_ON_fb]	<i>Analog Audio Out is Muted</i>
[Audio_Mute_Off_fb]	<i>Analog Audio Out is unMuted</i>
[Audio_vol_level_fb]	<i>Analog Volume feedback: value 0d min and 80d max</i>
[Audio_SetSource_digital_fb]	<i>Audio source set to be sent digitally (HDMI or HDBT)</i>
[Audio_SetSource_analog_fb]	<i>Audio source set to be sent out the Analog Audio Out</i>
[Display_BYOD_Kick_f]	<i>Temporary feedback of Kicked off BYOD source</i>
[Relay_1_Open_fb]	<i>Relay Opened</i>
[Relay_1_Close_fb]	<i>Relay Closed</i>
[Relay_2_Open_fb]	<i>Relay Opened</i>
[Relay_2_Close_fb]	<i>Relay Closed</i>
[CEC_Hdmi_power_on_f]	<i>CEC Power On command Sent</i>

[CEC_Hdmi_power_off_f]	<i>CEC Power Off command Sent</i>
[CEC_HDBT_power_on_f]	<i>CEC Power On command Sent</i>
[CEC_HDBT_power_off_f]	<i>CEC Power Off command Sent</i>
To_Device_tx\$	<i>Connects to TCP/IP/RS-232 receive.</i>

<i>Date</i>	<i>Initials</i>	<i>Comments</i>
<i>11/8/18</i>	<i>NM</i>	<i>Initial Release</i>

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Parameters

<i>Parameter Name</i>	<i>Description</i>
<i>Zone RS232 Power On</i>	<i>The Zone command parameters are used in conjunction with the Zone Command Digital signals. The SW 510 requires a \x for all Hex values. Crestron requires an extra backslash: To include the backslash character itself as part of a string, it must be preceded by another backslash. This "backslash before a backslash" indicates that the second backslash is to be printed, rather than serving as an escape code. Basically, "Power On (CR)" would be Power\x20On\x0D. The \x20 is for a space and \x0D a carriage return if the command requires it.</i>
<i>Zone RS232 Power Off</i>	
<i>Zone RS232 Volume Up</i>	
<i>Zone RS232 Volume Down</i>	
<i>Zone RS232 Volume Mute</i>	
<i>Zone HDBT Power On</i>	
<i>Zone HDBT Power Off</i>	
<i>Zone HDBT Volume Up</i>	
<i>Zone HDBT Volume Down</i>	
<i>Zone HDBT Volume Mute</i>	

Revision History