



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

[Zone_RS232_Power_On]	<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>
[Zone_RS232_Power_Off]	<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. Connects to TCP/IP/RS-232 receive.</i>
[Zone_RS232_Volume_Up]	<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. Connects to TCP/IP/RS-232 receive.</i>
[Zone_RS232_Volume_Down]	<i>Sends CEC Power On command</i>
[Zone_RS232_Volume_Mute]	<i>Sends CEC Power Off command</i>
[Zone_HDBT_Power_On]	
	<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>

[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]	
[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

Parameter Name	Description
Zone RS232 Power On	<p>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.</p> <p>Basically, "Power On (CR)" would be Power\x20On\x0D. The <a href="#">\\x20</a> is for a space and <a href="#">\\x0D</a> a carriage return if the command requires it.</p>
Zone RS232 Power Off	
Zone RS232 Volume Up	
Zone RS232 Volume Down	
Zone RS232 Volume Mute	
Zone HDBT Power On	
Zone HDBT Power Off	
Zone HDBT Volume Up	
Zone HDBT Volume Down	
Zone HDBT Volume Mute	

## Revision History