



# SENNHEISER

## Sennheiser EW-DX Module Help File

Sennheiser, AV clients (Crestron)



## SENNHEISER EW-DX V1.00.00 MODULE HELP

Module name	Sennheiser EW-DX v1.00.00.umd, SennheiserEWDX_1_00_00.usp, SennheiserClient.clz
Version	1.00.00
Description	This document defines the common Crestron module interface for the Sennheiser EW-DX unit.
Maintainer	Sennheiser
Inputs	<p><b><i>Pass-Thru-In, Serial</i></b> Used to pass any string into the main module. Improper formatting may result in errors.</p> <p><b>Subscribe, Digital</b> Creates a connection to the Sennheiser Processor module and allows child module to accept incoming data. This input needs to stay high for as long as the communication is needed.</p> <p><b>RX[1~2]</b></p> <p><b>RX[x]_Audio_Level_Tracking Digital</b> High to track the Audio Level dB changes in real time, Low to disable the tracking of Level dB. *This is because there is alot of data coming back when this is enabled.</p> <p><b>RX[x]_Mute_State_Enable, Digital</b> Pulse to Enable the Mute State. Doing this will mute the connected device.</p> <p><b>RX[x]_Mute_State_Disable, Digital</b> Pulse to Disable the Mute State. Doing this will unmute the connected device</p> <p><b>RX[x]_Mute_State_Toggle Digital</b> Pulse to toggle the mute state.</p> <p><b>RX[x]_RF_Signal_Tracking Digital</b> High to track the RF Signal Level changes in real time, Low to disable the tracking of Level. *This is because there is alot of data coming back when this is enabled.</p> <p><b>TX[1~2]</b></p> <p><b>TX[x]_Battery_Lifetime_Tracking Digital</b> High to track the Battery Lifetime changes in real time. Low to disable the tracking of battery lifetime. *This is because there is alot of data coming back when this is enabled.</p>

	<p><b>TX[x]_LowCut_Enable, Digital</b> Pulse to Enable the Audio LowCut Setting.</p> <p><b>TX[x]_LowCut_Disable, Digital</b> Pulse to Disable the Audio LowCut Setting.</p> <p><b>TX[x]_LowCut_Toggle Digital</b> Pulse to toggle the Audio LowCut state.</p>
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Outputs	<p><b>Pass-Thru-Out, Serial</b> Used to display any data from the main processor that is not part of the main module.</p> <p><b>Communicating_Fb, Digital</b> Will go High when the module has successfully established a response from the process module. Will go low if 5 commands fail.</p> <p><b>Device_Product, Serial</b> Displays the Product type in serial form: "EW-DX".</p> <p><b>Device_Name, Serial</b> Displays the Name given to the device in serial form.</p> <p><b>Device_Location, Serial</b> Displays the Location Name given to the device in serial form.</p> <p><b>Device_Serial_Number, Serial</b> Displays the Serial Number given to the device in serial form.</p> <p><b>Device_Firmware, Serial</b> Displays the Firmware version currently running on the device in serial form.</p> <p><b>Device_Ports, Analog</b> Displays the type of the EW-DX receiver unit. (0 default, 2 -2 Port, 4 - 4 Port).</p> <p><b>Errors, Serial</b> Displays any errors encountered from the device in serial form.</p> <p><b>Warnings, Serial</b> Displays any warnings in serial form.</p> <p><b>RX[1~2]</b></p> <p><b>RX[x]_Name, Serial</b> Displays the Name given to the RX channel device in serial form.</p> <p><b>RX[x]_Audio_Level_Tracking_Fb, Digital</b> High to track the Audio Level dB changes in real time, Low to disable the tracking of Level dB.  *This is because there is alot of data coming back when this is enabled.</p> <p><b>RX[x]_Audio_Level_dB, Analog</b> Displays the current dB level of the connected device. (signed integer -60 to 0. Will display as -60 when no device is connected).</p> <p><b>RX[x]_Mute_State_Enabled_Fb, Digital</b> Goes high if the mute state is enabled.</p> <p><b>RX[x]_Mute_State_Disabled_Fb, Digital</b> Goes high if the mute state is not enabled.</p> <p><b>RX[x]_RF_Signal_Tracking_Fb, Digital</b> High to track the RF Signal Level changes in real time, Low to disable the tracking of Level.  *This is because there is alot of data coming back when this is enabled.</p>
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	<p><b>RX[x]_RF_Signal_Fb, Analog</b>  <i>Displays the RF Quality when a device is connected. (0%-100%)</i></p> <p><b>RX[x]_RF_Frequency, Serial</b>  <i>Displays the RF Frequency when a device is connected.</i></p> <p><b>RX[x]_TX_Active, Digital</b>  <i>Will go High when the device is active and connected.</i></p> <p><b>TX[1~2]</b></p> <p><b>TX[x]_Name, Serial</b>  <i>Displays the Name given to the TX channel device in serial form.</i></p> <p><b>TX[x]_Device_Type_Shift, Analog</b>  <i>Displays the currently paired device type. (0 Handheld, 1 Bodypack, 2 Tablestand, 3 Boundary).</i></p> <p><b>TX[x]_Capsule_Info, Serial</b>  <i>Displays the Capsule information if available fo the connected device.</i></p> <p><b>RX[x]_Battery_Lifetime_Tracking_Fb, Digital</b>  High to track the Battery Lifetime changes in real time.  Low to disable the tracking of battery lifetime.  *This is because there is alot of data coming back when this is enabled.</p> <p><b>TX[x]_Battery_Lifetime, Analog</b>  <i>Displays the battery life left. (displayed in seconds)</i></p> <p><b>TX[x]_Battery_Gauge, Analog</b>  <i>Displays in percent how much battery life the device currently has. (0%-100%).</i></p> <p><b>TX[x]_Battery_Type, Analog</b>  <i>Displays the battery type for the connected device.</i></p> <p><b>TX[x]_LowCut_Enabled_Fb, Digital</b>  <i>Goes high if the Audio LowCut is enabled.</i></p> <p><b>TX[x]_LowCut_Disabled_Fb, Digital</b>  <i>Goes high if the Audio LowCut is not enabled.</i></p>						
Version History	<table border="1"> <thead> <tr> <th>Version</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1.00.00</td> <td>12/15/22</td> <td>Initial structure.</td> </tr> </tbody> </table>	Version	Date	Remarks	1.00.00	12/15/22	Initial structure.
Version	Date	Remarks					
1.00.00	12/15/22	Initial structure.					
Advisories/remarks							
Dependencies	<i>SennheiserProcessor.usp, Sennheiser EW-DX EM2 v1.00.00.umc, SennheiserEWDX_1_00_00usp, SennheiserClient.clz</i>						
Processor support	<i>2-Series, not currently supported.  3-Series &amp; 4-Series, supported.</i>						