



# SENNHEISER

## Sennheiser EW-DX Module Help File

Sennheiser, AV clients (Crestron)



## SENNHEISER EW-DX V1.01.00 MODULE HELP

Module name	Sennheiser EW-DX v1.01.00.umc, SennheiserEWDX_1_01_00.usp, SennheiserClient.clz
Version	1.01.00
Description	This document defines the common Crestron module interface for the Sennheiser EW-DX unit.
Maintainer	Sennheiser
Parameters	<p><b>IP Address</b> Ip address of device to connect and control</p> <p><b>ModuleNumber</b> If multiple modules of the same device are used, increment this so that each module is unique.</p>
Inputs	<p><b>Pass-Thru-In, Serial</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.</p> <p><b>RX[1~4]</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> <b>Pulse to toggle the mute state.</b></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 <b>enabled.</b></p>

**TX[x]\_Battery\_Lifetime\_Tracking Digital**

High to track the Battery Lifetime changes in real time.

Low to disable the tracking of battery lifetime.

\*This is because there is a lot of data coming back when this is enabled.

**TX[x]\_LowCut\_Enable, Digital**

Pulse to Enable the Audio LowCut Setting.

**TX[x]\_LowCut\_Disable, Digital**

Pulse to Disable the Audio LowCut Setting.

**TX[x]\_LowCut\_Toggle Digital**

Pulse to toggle the Audio LowCut state.

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[1~4]</b> <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> Displays the RF Quality when a device is connected. (0%-100%)</p> <p><b>RX[x]_RF_Frequency, Serial</b> Displays the RF Frequency when a device is connected.</p> <p><b>RX[x]_TX_Active, Digital</b> Will go High when the device is active and connected.</p> <p><b>TX[x]_Name, Serial</b> Displays the Name given to the TX channel device in serial form.</p> <p><b>TX[x]_Device_Type_Shift, Analog</b> Displays the currently paired device type. (0 Handheld, 1 Bodypack, 2 Tablestand, 3 Boundary).</p> <p><b>TX[x]_Capsule_Info, Serial</b> Displays the Capsule information if available fo the connected device.</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> Displays the battery life left. (displayed in seconds)</p> <p><b>TX[x]_Battery_Gauge, Analog</b> Displays in percent how much battery life the device currently has. (0%-100%).</p> <p><b>TX[x]_Battery_Type, Analog</b> Displays the battery type for the connected device.</p> <p><b>TX[x]_Mute_State_Enabled_Fb, Digital</b> Goes high if the TX mute state is enabled.</p> <p><b>TX[x]_Mute_State_Disabled_Fb, Digital</b> Goes high if the TX mute state is not enabled.</p> <p><b>TX[x]_LowCut_Enabled_Fb, Digital</b> Goes high if the Audio LowCut is enabled.</p> <p><b>TX[x]_LowCut_Disabled_Fb, Digital</b> Goes high if the Audio LowCut is not enabled.</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> <tr> <td>1.00.01</td> <td>01/29/23</td> <td>Added ModuleNumber parameter</td> </tr> <tr> <td>1.01.00</td> <td>08/22/24</td> <td>Added signals for TX Mute state status</td> </tr> </tbody> </table>	Version	Date	Remarks	1.00.00	12/15/22	Initial structure.	1.00.01	01/29/23	Added ModuleNumber parameter	1.01.00	08/22/24	Added signals for TX Mute state status
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Dependencies	SennheiserProcessor.usp, Sennheiser EW-DX v1.01.09umc, SennheiserEWDX._1_01_00usp, SennheiserClient.clz												
Processor support	2-Series, not currently supported. 3-Series, supported.												

