



SENNHEISER

Sennheiser MCR Module Help File

Sennheiser, AV clients (Crestron)



SENNHEISER MCR V2.02.00 MODULE HELP

Module name	Sennheiser MCR v2.02.00.umc, SennheiserMCR_2_02_00.usp, SennheiserClient.clz
Version	2.02.00
Description	This document defines the common Crestron module interface for the Sennheiser MCR unit.
Maintainer	Sennheiser
Inputs	<p><i>Pass-Thru-In, Serial</i> Used to pass any string into the main module. Improper formatting may result in errors.</p> <p>Subscribe, Digital Creates a connection to the Sennheiser Processor module and allows child module to accept incoming data.</p> <p>LED_Brightness, Analog Analog value to set the LED brightness of the LED Lights (Values 0~5)</p> <p><i>MixerAudio_Level_Tracking Digital</i> <i>High to track the Audio Level dB changes in real time, Low to disable the tracking of Level dB.</i> *This is because there is alot of data coming back when this is enabled.</p> <p>RX[1~4]</p> <p>RX[x]_Audio_Level_Tracking Digital 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>RX[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 alot of data coming back when this is enabled.</p> <p>RX[x]_Mute_State_Enable, Digital Pulse to Enable the Mute State. Doing this will mute the connected device.</p> <p>RX[x]_Mute_State_Disable, Digital Pulse to Disable the Mute State. Doing this will unmute the connected device</p> <p>RX[x]_Mute_State_Toggle Digital Pulse to toggle the mute state.</p> <p>RX[x]_Audio_LowCut_Enable, Digital</p>

	<p>Pulse to Enable the Audio LowCut Setting.</p> <p>RX[x]_Audio_LowCut_Disable, Digital</p> <p>Pulse to Disable the Audio LowCut Setting.</p> <p>RX[x]_Audio_LowCut_Toggle Digital</p> <p>Pulse to toggle the Audio LowCut state.</p> <p>RX[x]_LED_Enable, Digital</p> <p>Pulse to Enable the LED Lights Setting.</p> <p>RX[x]_LED_Disable, Digital</p> <p>Pulse to Disable the LED Lights Setting.</p> <p>RX[x]_LED_Toggle Digital</p> <p><i>Pulse to toggle the LED Lights state.</i></p> <p>RX[x]_Audio_Equalizer_Preset, Analog</p> <p><i>Analog value to change the audio equ preset.(0 Off, 1 Female Speech, 2 Male Speech, 3 Media, 4 Custom).</i></p> <p>RX[x]_EQ_Level_x, Analog</p> <p><i>Analog eq levels for each freq. (-8~8 dB range).</i></p>
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Outputs	<p>Pass-Thru-Out, Serial Used to display any data from the main processor that is not part of the main module.</p> <p>Communicating_Fb, Digital Will go High when the module has successfully established a response from the process module. Will go low if 5 commands fail.</p> <p>Device_Product, Serial Displays the Product type in serial form: "MCR".</p> <p>Device_Name, Serial Displays the Name given to the device in serial form.</p> <p>Device_Location, Serial Displays the Location Name given to the device in serial form.</p> <p>Device_Position, Serial Displays the Position Name given to the device in serial form.</p> <p>Device_Serial_Number, Serial Displays the Serial Number given to the device in serial form.</p> <p>Device_Firmware, Serial Displays the Firmware version currently running on the device in serial form.</p> <p>Errors, Serial Displays any errors encountered from the device in serial form.</p> <p>Warnings, Serial Displays any warnings in serial form.</p> <p>Device_Type, Analog Displays the type of the MCR receiver unit. (0 default , 2 -2 Port, 4 - 4 Port).</p> <p>LED_Brightness_Fb, Analog Analog value to set the LED brightness of the LED Lights (Values 0~5)</p> <p>Mixer_Audio_Level_dB, Analog 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>RX[1~4] RX[x]_Audio_Level_Tracking_Fb, Digital High to track the Audio Level dB changes in real time, Low to disable the tracking of Level dB. *This is because there is a lot of data coming back when this is enabled.</p> <p>RX[x]_Battery_Lifetime_Tracking_Fb ,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.</p> <p>RX[x]_Name, Serial Displays the Name given to the RX channel device in serial form.</p> <p>RX[x]_State, Serial Displays the State given to the RX channel device in serial form. ["NOT_CONNECTED", "CONNECTED", "PAIRING", "FWU_OTA", "FWU_OTA_CONFIRMATION", "TRANSMITTER_UPDATE_FAILED", "WALKTEST"]</p> <p>RX[x]_Mute_Mode_Active_Fb, Digital</p>
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	<p>Will be high if the mute mode is active, which will allow the mic switch to be physically operated.</p> <p>RX[x]_Mute_State_Enabled_Fb, Digital Goes high if the mute state is enabled.</p> <p>RX[x]_Mute_State_Disabled_Fb, Digital Goes high if the mute state is not enabled.</p> <p>RX[x]_Audio_LowCut_Enabled_Fb, Digital Goes high if the Audio LowCut is enabled.</p> <p>RX[x]_Audio_LowCut_Disabled_Fb, Digital Goes high if the Audio LowCut is not enabled.</p> <p>RX[x]_Identify_Fb, Digital Will go High when the device is in Identify mode.</p> <p>RX[x]_Pairing_Fb, Digital Will go High when the device is in Pairing mode.</p> <p>RX[x]_LED_Enabled_Fb, Digital Goes high if the LED is enabled.</p> <p>RX[x]_LED_Disabled_Fb, Digital Goes high if the LED is not enabled.</p> <p>RX[x]_Audio_Level_dB, Analog 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>RX[x]_RF_Quality_Fb, Analog Displays the RF Quality when a device is connected. (0%-100%)</p> <p>RX[x]_Audio_Equalizer_Preset_Fb, Analog Displays the current Audio Equalizer Preset. (0 Off, 1 Female Speech, 2 Male Speech, 3 Media, 4 Custom).</p> <p>RX[x]_EQ_Level_x_Fb, Analog Displays eq levels feedback for each freq. (-8~8 dB range).</p> <p>RX[x]_TX_AGC, Serial Displays the AGC for the TX channel device in serial form.</p> <p>RX[x]_TX_Active, Digital Will go High when the device is active and connected.</p> <p>RX[x]_Battery_Bars, Analog Displays how many battery bars the device currently has. (1-6).</p> <p>RX[x]_Battery_Gauge, Analog Displays in percent how much battery life the device currently has. (0%-100%).</p> <p>RX[x]_Battery_Lifetime, Analog Displays the battery life left. (displayed in seconds)</p> <p>RX[x]_Device_Type, Analog Displays the currently paired device type. (0 Handheld, 1 Bodypack, 2 Tablestand, 3 Boundary).</p> <p>RX[x]_Warnings, Serial Displays tany active warnings from the device.</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>02/05/20</td> <td>Initial structure.</td> </tr> <tr> <td>1.01.00</td> <td>24/08/20</td> <td>Recompile with new crestron databases.</td> </tr> <tr> <td>2.00.00</td> <td>100920</td> <td>Changes to backend to reduce the amount of serial</td> </tr> </tbody> </table>	Version	Date	Remarks	1.00.00	02/05/20	Initial structure.	1.01.00	24/08/20	Recompile with new crestron databases.	2.00.00	100920	Changes to backend to reduce the amount of serial
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			data in simpl windows
	2.01.00	N/A	Skipping to sync with other modules
	2.02.00	01/02/22	Adding feature updates
Advisories/ remarks			
Dependencies	<i>SennheiserProcessor.usp, Sennheiser MCR v2.02.00.umc, SennheiserMCR._2_02_00usp, SennheiserClient.clz</i>		
Processor support	<i>2-Series, not currently supported. 3-Series, supported.</i>		