

## Sennheiser MCR Module Help File

Sennheiser, AV clients (Crestron)



## SENNHEISER MCR TCP V1.00.00 MODULE HELP

Module name	Sennheiser MCR TCP v1.00.00.umc, SennheiserMCR_TCP_1_00_00.usp, SennheiserMCR.clz
Version	1.00.00
Description	This document defines the common Crestron module interface for the Sennheiser MCR unit.
Maintainer	Sennheiser
Inputs	Pass-Thru-In, Serial Used to pass any string into the main module. Improper formatting may result in
	errors.
	LED_Brightness, Analog
	Analog value to set the LED brightness of the LED Lights (Values $0~5$ )
	<i>MixerAudio_Level_Tracking Digital</i> <i>High to track the Audio Level dB changes in real time,</i> <i>Low to disable the tracking of Level dB.</i> *This is because there is alot of data coming back when this is enabled.
	RX[1~4]
	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.
	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.
	RX[x]_Mute_State_Enable, Digital
	Pulse to Enable the Mute State. Doing this will mute the connected device.
	RX[x]_Mute_State_Disable, Digital
	Pulse to Disable the Mute State. Doing this will unmute the connected device
	RX[x]_Mute_State_Toggle Digital
	Pulse to toggle the mute state.
	RX[x]_Audio_LowCut_Enable, Digital
	Pulse to Enable the Audio LowCut Setting.
	RX[x]_Audio_LowCut_Disable, Digital
	Pulse to Disable the Audio LowCut Setting.

RX[x]_Audio_LowCut_Toggle Digital
Pulse to toggle the Audio LowCut state.
RX[x]_LED_Enable, Digital
Pulse to Enable the LED Lights Setting.
RX[x]_LED_Disable, Digital
Pulse to Disable the LED Lights Setting.
RX[x]_LED_Toggle Digital
Pulse to toggle the LED Lights state.
RX[x]_Audio_Equalizer_Preset, Analog
Analog value to change the audio equ preset.(0 Off, 1 Female Speech, 2 Male Speech, 3 Media, 4 Custom).
<b>RX[x]_EQ_Level_x, Analog</b> Analog eq levels for each freq. (-8~8 dB range).

Outputs	<b>Pass-Thru-Out, Serial</b> Used to display any data from the main processor that is not part of the main module.
	<b>Communicating_Fb, Digital</b> Will go High when the module has succesfully established a response from the process module. Will go low if 5 commands fail.
	<i>Device_Product, Serial Displays the Product type in serial form: "MCR".</i>
	<b>Device_Name, Serial</b> Displays the Name given to the device in serial form.
	<b>Device_Location, Serial</b> Displays the Location Name given to the device in serial form.
	<b>Device_Position, Serial</b> Displays the Position Name given to the device in serial form.
	<b>Device_Serial_Number, Serial</b> Displays the Serial Number given to the device in serial form.
	<b>Device_Firmware, Serial</b> Displays the Firmware version currently running on the device in serial form.
	<i>Errors, Serial</i> Displays any errors encountered from the device in serial form.
	<b>Warnings, Serial</b> Displays any warnings in serial form.
	<b>Device_Type, Analog</b> Displays the type of the MCR receiver unit. (0 default , 2 -2 Port, 4 - 4 Port).
	LED_Brightness_Fb, Analog
	Analog value to set the LED brightness of the LED Lights (Values $0 \sim 5$ )
	<i>Mixer_Audio_Level_dB, Analog</i> Displays the current dB level of the connected device. (signed integer -60 to 0. Will display as -60 when no device is connected).
	<b>RX[1~4]</b> 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 alot of data coming back when this is
	enabled.
	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 alot of data coming back when this is enabled.
	<b>RX[x]_Name, Serial</b> Displays the Name given to the RX channel device in serial form.
	<b>RX[x]_State, Serial</b> 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"]
	RX[x]_Mute_Mode_Active_Fb, Digital

	Will be high if the mute mode is active, which will allow the mic switch to be physically operated.
	<b>RX[x]_Mute_State_Enabled_Fb, Digital</b> Goes high if the mute state is enabled.
	<b>RX[x]_Mute_State_Disabled_Fb, Digital</b> Goes high if the mute state is not enabled.
	<b>RX[x]_Audio_LowCut_Enabled_Fb, Digital</b> Goes high if the Audio LowCut is enabled.
	<b>RX[x]_Audio_LowCut_Disabled_Fb, Digital</b> Goes high if the Audio LowCut is not enabled.
	<b>RX[x]_Identify_Fb, Digital</b> Will go High when the device is in Identify mode.
	<b>RX[x]_Pairing_Fb, Digital</b> Will go High when the device is in Pairing mode.
	<b>RX[x]_LED_Enabled_Fb, Digital</b> Goes high if the LED is enabled.
	<b>RX[x]_LED_Disabled_Fb, Digital</b> Goes high if the LED is not enabled.
	<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).
	<b>RX[x]_RF_Quality_Fb, Analog</b> Displays the RF Quality when a device is connected. (0%-100%)
	<b>RX[x]_Audio_Equalizer_Preset_Fb, Analog</b> Displays the current Audio Equalizer Preset. (0 Off, 1 Female Speech, 2 Male Speech, 3 Media, 4 Custom).
	<b>RX[x]_EQ_Level_x_Fb, Analog</b> Displays eq levels feedback for each freq. (-8~8 dB range).
	<b>RX[x]_TX_AGC, Serial</b> Displays the AGC for the TX channel device in serial form. <b>RX[x]_TX_Active, Digital</b> Will go High when the device is active and connected.
	<b>RX[x]_Battery_Bars, Analog</b> Displays how many battery bars the device currently has. (1-6).
	<b>RX[x]_Battery_Gauge, Analog</b> Displays in percent how much battery life the device currently has. (0%-100%).
	<b>RX[x]_Battery_Lifetime, Analog</b> Displays the battery life left. (displayed in seconds)
	<b>RX[x]_Device_Type, Analog</b> Displays the currently paired device type. (0 Handheld, 1 Bodypack, 2 Tablestand, 3 Boundary).
	<b>RX[x]_Warnings, Serial</b> Displays tany active warnings from the device.
Version History	Version Date Remarks (yy/mm/dd
	1.00.00 22/02/10 Initial structure.
Advisories/ remarks	
Dependencies	Sennheiser MCR TCP v1.00.00.umc, SennheiserMCR_TCP_1_00_00usp, SennheiserMCR.clz

Processor	2-Series, not currently supported.
support	3-Series, supported.