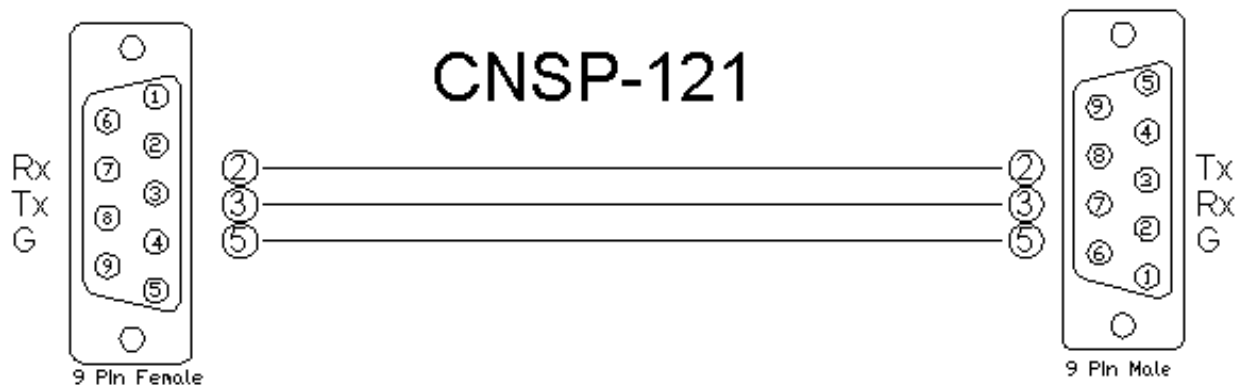


**Partner:** Shure  
**Model:** DFR22  
**Device Type:** Audio Processor



**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Shure DFR22 Audio Processor (MIX)
<b>CATEGORY:</b>	Audio Processor
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module will control one mixing point of the DFR22 with true feedback.
<b>GENERAL NOTES:</b>	This module will control the gain and mute state of any mixer on the DFR22 Processor. Multiple DFR22's (16) can be connected to the Shure Link bus to be controlled from a single RS232 port. Therefore, it is necessary to enter the Device ID of the processor attached to the network. This module provides address and mixer channel versatility so that multiple instances of this module can and typically are used. It is recommended to pulse the "Poll Enable" input after system start up or when a preset is selected (DFR22 Audio Processor Preset module) so that the module can acquire current settings. This allows the module to adjust settings from a predefined (current) level and not starting from below -105db(MIN). All available parameters, Device ID, mixer and IN Channel, can be selected from the module's property entry fields.
<b>CRESTRON HARDWARE REQUIRED:</b>	C2-COM, ST-COM, CNMSX Internal Com Ports
<b>SETUP OF CRESTRON HARDWARE:</b>	Baud Rate - 19200 Parity - None Data Bits - 8 Stop Bits - 1
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	N/A
<b>CABLE DIAGRAM:</b>	CNSP-121 (Device's front panel) or CNSP-519 (Device's rear panel)



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**CONTROL:**

<b>Gain_Up</b>	D	Assert to increase current level
<b>Gain_Down</b>	D	Assert to decrease current level
<b>Mute_On</b>	D	Pulse to enable audio mute
<b>Mute_Off</b>	D	Pulse to disable audio mute
<b>Mute_Toggle</b>	D	Pulse to change device's current mute state on or off
<b>DEVICE ID</b>	P	Selects the device's (DFR22) Shure Link ID (00 - 15)
<b>MIXER</b>	P	Selects one of the device's mixers (1,2) to be controlled
<b>IN CHANNEL</b>	P	Selects the mixer's input channel or Fader (1,2, All) to be controlled
<b>Poll_Enable</b>	D	Pulse to acquire device's current settings.
<b>From_Device\$</b>	S	Serial signal to be routed from a 2-way serial com port

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**FEEDBACK:**

<b>Mute_On_FB</b>	D	True feedback indicating audio mute is enabled
<b>Mute_Off_FB</b>	D	True feedback indicating audio mute is disabled
<b>Gain_Analog</b>	A	Analog value indicating current level to be sent to a bar graph
<b>To_Device\$</b>	S	Serial signal to be routed to a 2-way serial com port

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	PRO2: 3.088 CNMSX: 5.12.63
<b>COMPILER USED FOR TESTING:</b>	2.00.30
<b>SAMPLE PROGRAM:</b>	Shure DFR22 Audio Processor Demo Pro2.smw Shure DFR22 Audio Processor Demo CNMSX.smw
<b>REVISION HISTORY:</b>	V. 1.0