Partner: Shure
Model: P4800 DSP
Device Type: Mixer

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Shure P4800 DSP MIXER Control
CATEGORY:	Audio Processor
VERSION:	1.0
SUMMARY:	This module will control one of eight possible mixer logical blocks within the Shure P4800 Digital Signal Processor while providing true feedback. Please read Notes for Vender limitations.
GENERAL NOTES:	This module will control one(1) of eight(8) possible Matrix Mixer(4X1) logical blocks within the Shure P4800 Digital Signal Processor. Each module instance will allow the control of its four(4) inputs and one(1) output level/mute status and the activation of the selected mixer block's mixpoints. It is necessary to enter the Device ID of the P4800 to be controlled. Valid parameters are ASCII characters from "0" to "F" and can be selected from the module's property entry fields. Parameters Mixpoint Number, Number of Mixpoints, Mixer Output Number and Number of Outputs are decimal values to be entered that represent the size of the mixer to be controlled. The P4800 contains eight(8) 4x1 Matrix Mixer Blocks. This constitutes a total of thirty two(32) inputs and eight(8) outputs or a 32x8 mixer or (NUMBER OF MIXPOINTS x NUMBER OF OUTPUTS). Since there are eight(8) mixers each having four(4) inputs for a total of 32(1 through 32), MIXPOINT NUMBER is valued at 1d through 29d in 4d steps. The entry for MIXPOINT NUMBER represents the FIRST input of the respective Matrix Mixer block to be controlled. For example, MIXPOINT NUMBER = 5d is Mixer 2 inputs 5 through 8. MIXER OUTPUT NUMBER values are 1d through 8d representing each of the eight(8) possible Matrix Mixer Outputs. In the above example, you would ender 2d in the parameter field(Mixer Out 2). It is recommended to pulse the "Poll Enable " input after system start up. The module automatically polls for current settings when a preset is selected. This allows the module to adjust settings from a predefined (current) level rather than starting from a minimum value. When controlling the device's mixer sections, it is recommended to connect the IO module's(if used) Busy_Polling signal to the Poll_Enable input of the next Mixer module in succession using the NOT trigger input of a MV. Multiple mixer modules can be used to control all eight (8) of the device's mixer logical blocks. NOTES: Due to limitations in the Vendor's firmware, the Matrix Mixer CANNOT BE POLLED for current settings of the output section and mixpoint activation status. ONLY at system startup, this module will activate all mixpoints, mixer output mute will be set to off and the level of the output will be set to the last know level stored in the Pro2's NVRAM.
CRESTRON HARDWARE REQUIRED:	C2-COM, ST-COM; **Note: This module is for 2 Series processors only.**
SETUP OF CRESTRON HARDWARE:	Baud Rate - 19200 Parity - None Data Bits - 8 Stop Bits – 1 HWHS – RTS/CTS
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	None

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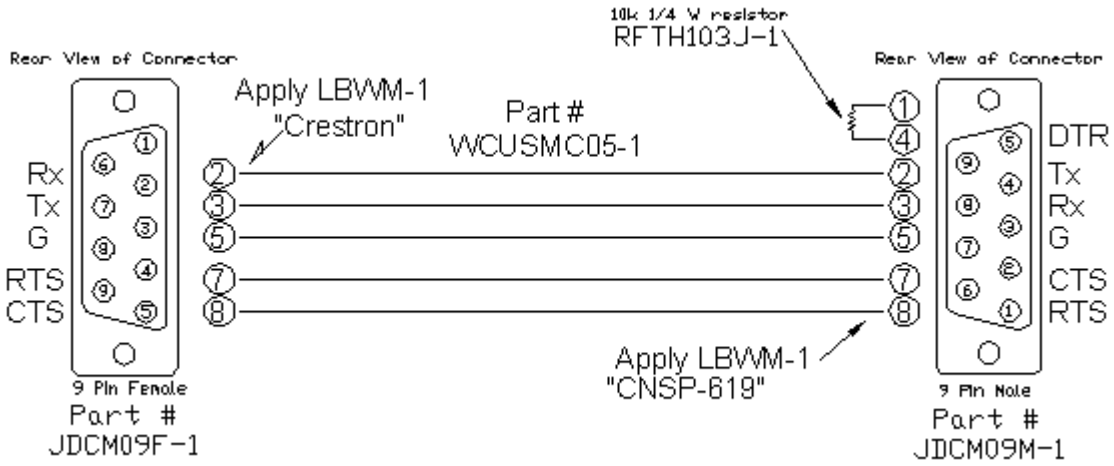
CABLE DIAGRAM:	CNSP-619



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I2P Certified Modules can be found archived on our website in the Design Center. For more information please contact our Technical Sales Deptartment at techsales@crestron.com. *Specifications subject to change without notice.*

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CONTROL:

Input*_Up	D	Assert to increase current input level
Input*_Down	D	Assert to decrease current input level
Input*_Mute_On	D	Pulse to enable input audio mute
Input*_Mute _Off	D	Pulse to disable input audio mute
Input*_Mute_Tog	D	Pulse to change device's current input mute state on or off
Output_Up	D	Assert to increase current output level
Output_Down	D	Assert to decrease current output level
Output_Mute_On	D	Pulse to enable output audio mute
Output_Mute _Off	D	Pulse to disable output audio mute
Output_Mute_Tog	D	Pulse to change device's current output mute state on or off
MixPoint*_On	D	Pulse to activate selected mixpoint
MixPoint*_Off	D	Pulse to de-activate selected mixpoint
MixPoint*_Tog	D	Pulse to change device's current mixpoint activation state on or off
Poll_Enable	D	Pulse at startup to query device for current settings.
DEVICE ID	P	Selects the device's ID "0" through "F" (value 00 – 15)
From_Device$	S	Serial signal to be routed from a 2-way serial com port

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FEEDBACK:

***_Mute_On_FB**	D	True feedback indicating audio mute is enabled
***_Mute_Off_FB**	D	True feedback indicating audio mute is disabled
Busy_Polling	D	When high, module is currently polling device for current settings. All functions are disabled until polling cycle is completed (2.52s).
***_Bar**	A	Analog value indicating current level to be sent to a bar graph
To_Device$	S	Serial signal to be routed to a 2-way serial com port

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TESTING:

OPS USED FOR TESTING:	PRO2: 3.088
COMPILER USED FOR TESTING:	2.00.30
SAMPLE PROGRAM:	Shure P4800 DSP Demo Pro2.smw
REVISION HISTORY:	V. 1.0

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