

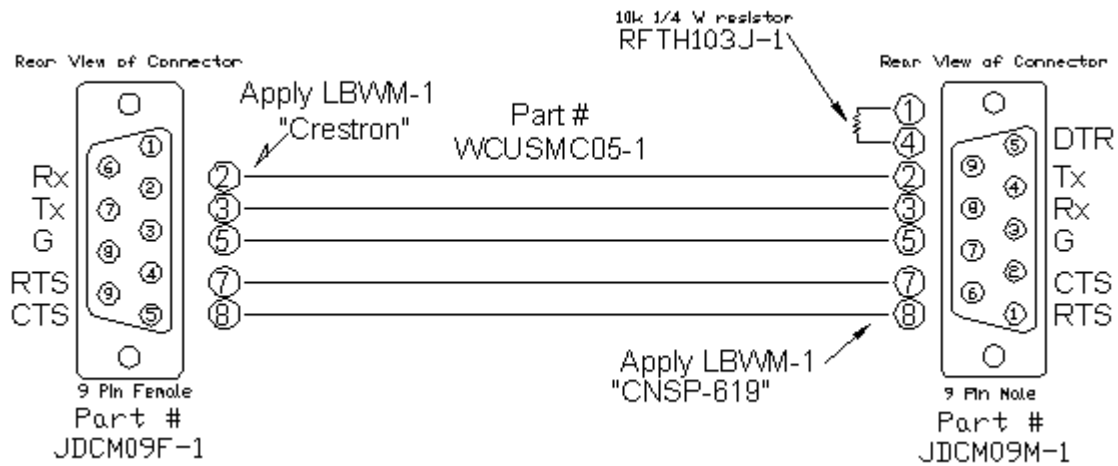
Partner: Shure
Model: P4800 DSP
Device Type: Mixer



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Shure P4800 DSP IO Control
CATEGORY:	Audio Processor
VERSION:	1.0
SUMMARY:	This module will control the level and mute status of all available inputs and outputs of the P4800 with true feedback. Ten(10) possible presets can also be selected
GENERAL NOTES:	<p>This module will control the level and mute state of any channel on the P4800 Digital Signal Processor. Ten(10) presets can be activated with true feedback indicated selected preset. 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.</p> <p>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 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.</p> <p>NOTE: Due to limitations of the Vendor's firmware, the P4800 cannot be polled for the currently active preset. The preset must be selected first before the module can accurately display proper feedback.</p>
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
CABLE DIAGRAM:	CNSP-619

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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
Preset_*	D	Pulse to select desired preset
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
Preset_*_FB	D	True feedback indicating currently active preset
Busy_Polling	D	When high, module is currently polling device for current settings. All functions are disabled until polling cycle is completed (7.5s).
*_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