



Partner: Lectrosonics, Inc. Model: ASPEN SPN1624

**Device Type: Audio Matrix Mixer** 



SIMPLWINDOWS NAME: AS	ASPEN SPN1624 Output Control v1.0		
CATEGORY:	Mixer		
VERSION: 1.	.0		
SUMMARY:	his module controls all Output based serial communication for the ASPEN SPN1624		
Sear table between the period of the period	this module allows control of Rear-Panel Output-Gain (Attenuation) and muting.  et the gain structure for the room utilizing the Input Gain, Crosspoint Gain (Matrix) and Output Gain. Set input gains so the meter shows about 0db when someone is alking (or performing) at normal level. Cross point gain is usually at 0 db – it may e lower if the system is set up for "mix-minus". Output gain is usually set at 0db. weak the gain of the room (at the amplifier, not at the mixer!) to the highest equired level (no feedback or ringing please) – this would be the level you would eed when the room is most crowded. Now, In the Rear Panel Gain Control tab, set he Rear Panel Output Gain Controls of each output to a comfortable listening level, erhaps, -6dB or -9dB. Once this is accomplished, give control of the Rear Panel output Gain, in this module, to the end-user. This will ensure that the system annot be driven into feedback; the gain structure is completely isolated from the nd-user, yet, they still have full control of the audio level.  his module controls the Rear Panel Output Gain of 24 channels in steps of -6dB to 6dB with respect to the current level of the Rp output gain. The channels can be controlled independently, all simultaneously, or in any selected group. Furthermore, is an example, a channel could be set to 2dB steps and another channel could be set or 2dB steps which essentially set a cross fade when the volume is incremented or ecremented. Setting a Rear Panel Output Gain step to 0 will leave the channel's urrent gain level unaffected. All Rear Panel Output Gain steps (rpoutgn-step-value) are Crestron analog inputs and can be changed dynamically on-the-fly during untime.  wailable control includes Volume Up/Dn, Mute On/Off/Momentary/Toggle, Mute utton Feedback, individual Output Mute Feedback, individual analog Output Step alues from -6dB to +6dB, analog feedback for each output in percent and dB ormats and OK/ERROR Feedback status.  he module is completely event-driven which eliminates the need for pollin		



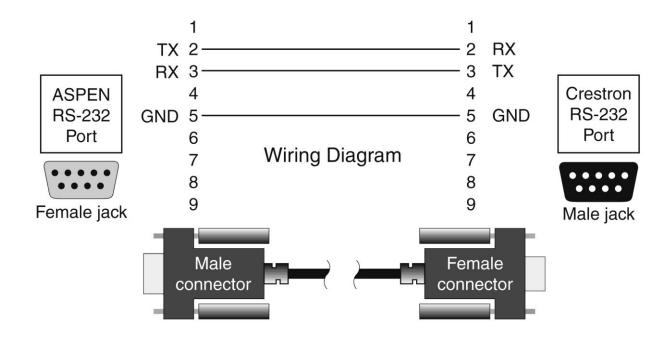


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CRESTRON HARDWARE REQUIRED:	ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 57600, Parity: N, Data Bits: 8, Stop Bits: 1
VENDOR FIRMWARE:	Version 1.1.5
VENDOR SETUP:	RS232 Baud: 57600, Parity: N, Data Bits: 8, Stop Bits: 1 (DEFAULT Settings)
CABLE DIAGRAM:	ASPEN device to Crestron control system



CONTROL:		
Vol_Up	D	Pulse will increment each output by the specified value in rpoutgn-step-value. A value of 0 in rpoutgn-step-value will leave that output unaffected. If held high, Vol_Up will auto-increment after a timeout of 2 seconds.
Vol _Dn	D	Pulse will decrement each output by the specified value in rpoutgn-step-value. A value of 0 in rpoutgn-step-value will leave that output unaffected. If held high, Vol_Dn will auto-decrement after a timeout of 2 seconds.
Mute_Toggle	D	Pulse will toggle the current mute-state of all outputs with rpoutgn-step-values greater or less than 0.
Mute_On	D	Pulse will set the current mute-state of all outputs with rpoutgn-step-values greater or less than 0.





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Mute_Off	D	Pulse will clear the current mute-state of all outputs with rpoutgn-step-values greater or less than 0.
Mute_Momentary	D	High to set the current mute-state of all outputs with rpingn-step-values greater or less than 0.
rpoutgn-step-value 1-24	Α	Analog signal for each of the 24 output channels sets the step in dB (-6d to 6d). Each press of the Vol_Up/Dn will change the current Rear Panel Gain output by the specified step amount. A value of 0 will leave the output unaffected.
from_aspen\$	S	Serial signal to be routed from an RS232 2-way COM port.

FEEDBACK:		
Mute_Button_FB	D	High to indicate an enabled mute of any output.
Vol_Lvl_percent_1-24	Α	Analog value (0 to 100) for each output.
Vol_Lvl_dB_1-24	Α	Analog value (-61 to 0) for each output.
Mute_FB_1-24	D	High to indicate an enabled mute of each output.
Rcvd_OK	D	Pulse to indicate successful communication with ASPEN device.
Rcvd_ERROR	D	Pulse to indicate Unsuccessful communication with ASPEN device.
To_aspen\$	S	Serial signal to be routed to an RS232 2-way COM port.
Device	s	REQUIRED – Master unit will be Device ID 1. Each successive device in the chain will increment by 1.

TESTING:	
OPS USED FOR TESTING:	4.001.1012
SIMPL WINDOWS USED FOR TESTING:	2.12.30
CRES DB USED FOR TESTING:	22.00.012.00
DEVICE DATABASE:	28.05.004.00
SYMBOL LIBRARY USED FOR TESTING:	669
SAMPLE PROGRAM:	ASPEN series control v1.0



## **Certified Module**

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**REVISION HISTORY:** 

Version 1.0