Partner: BiAmp
Model: AudiaFlex & Nexia
Device Type: DSP

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Biamp AudiaFlex + Nexia On-Off Control v5
CATEGORY:	Mixer
VERSION:	V5
SUMMARY:	This module controls any mute point in the BiAmp AudiaFlex or Nexia.
GENERAL NOTES:	This module will control any mute point in the Biamp AudiaFlex and Nexia. This module MUST be used in conjunction with the Biamp AudiaFlex + Nexia Command Processor v5.umc module. This module processes all transmitted and received serial strings and reformats device feedback so that this data can be sent to the proper module for final processing. When polling the BiAmp for current status, you should poll for only the information you really need at the time. The more data points you poll for at one time, the longer it will take to get an update for any one data point. It should not normally be necessary to poll for all data points all the time. This module has (5) five parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Mute_Device_Type is the control block type. This selected from a drop down list. Mute_Device_ID is the device's ID and is automatically assigned when the .dap file is compiled. Mute_Device_Instance is the "Logic Block's" ID that is automatically assigned when the .dap file is compiled. Mute_Index_1 is the first index number from the BiAmp software. This is typically the channel, input or output number to be controlled. Mute_Index_2 is the second index number from the BiAmp software. In a lot of cases this will be zero. This information is all contained in the Block properties field when developing the .dap file within the Biamp AudiaFlex Windows software. A .dap file (Crestron Test v5.dap) was created by Crestron for testing purposes and MUST be used for proper operation of the Pro2 DEMO v5 program. All responses from the BiAmp must be routed through the BiAmp AudiaFlex + Nexia Unit Buffer v5 module. This module will send the response string to only modules that are controlling the particular instance in the BiAmp. If there are more than 20 modules controlling a single instance object in the BiAmp, you must add buffering outside this module to send the response to no more than 20 modules at a time. Please the demo program for an example of this.
CRESTRON HARDWARE REQUIRED:	ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 38400 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	4.380

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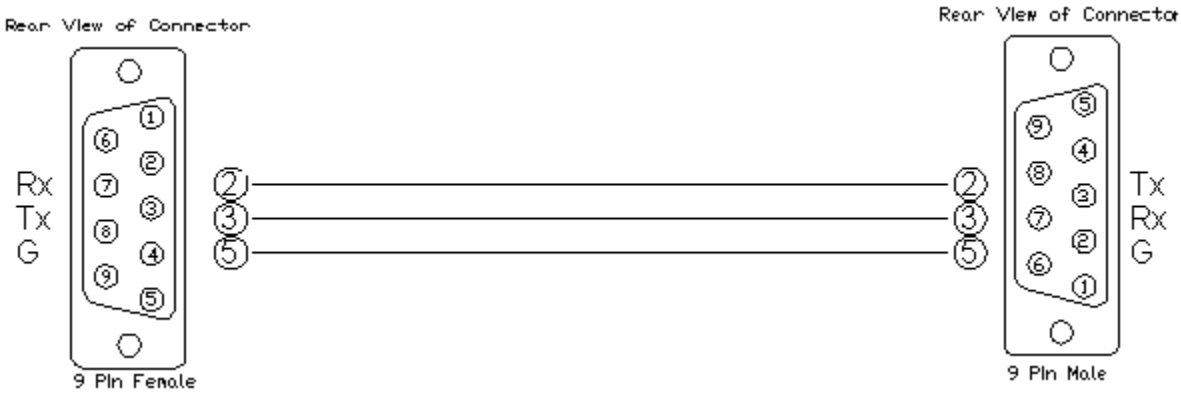

CONTROL:

Volume_Mute_On/Off/Toggle	D	Pulse to turn the mute on and off.
Poll_Mute	D	Pulse to poll for the current value.
From_Processor$	S	Serial data signal coming from the Biamp AudiaFlex + Nexia Unit Buffer v5 module.

FEEDBACK:

Volume_Mute_On/Off_Fb	D	High to indicate the current mute state.
To_Processor$	S	Serial data signal to be sent to the Biamp AudiaFlex + Nexia Command Processor v5.

PARAMETERS:

Mute_Device_Type	ASCII	Select the proper device type from the drop down list.
Mute_Device_ID	ASCII	Device address automatically assigned after the Biamp .dap file is compiled
Mute_Device_Instance	ASCII	Logic Block ID assigned after the Biamp .dap file is compiled
Mute_Index_1	ASCII	Mute index to be controlled. This is the input, channel or output number being controlled.
Mute_Index_2	ASCII	This used for cross point type devices. Typically, this would be zero. For cross points this is the output number for the cross point being controlled.

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TESTING:

OPS USED FOR TESTING:	3.155.1143
SIMPL WINDOWS USED FOR TESTING:	2.08.26
CRES DB USED FOR TESTING:	18.5.0
SYMBOL LIBRARY USED FOR TESTING:	444
SAMPLE PROGRAM:	BiAmp AudiaFlex + Nexia Demo Pro2 v5
REVISION HISTORY:	V3 – 2-Series Only, corrected dialer timing, text display, speed of dialing and over all operation (firmware) V4 – Changed timing of dialer strings sent when off hook V5 – Made changes for the new responses from the BiAmp. These new responses have the command details and status in them. This eliminates the need to poll for status when making changes. Added new commands. Added buffering for the responses to improve system response.

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