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

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Biamp AudiaFlex + Nexia Dialer v7.0
CATEGORY:	Mixer
VERSION:	7.0
SUMMARY:	This module controls the TI-2 Telephone interface within the Biamp AudiaFlex and Nexia.
GENERAL NOTES:	This module will control the TI-2 Telephone interface within the Biamp AudiaFlex and Nexia. This module MUST be used in conjunction with the Biamp AudiaFlex + Nexia Command Processor v7.0.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 will have some latency when dialing in an off hook state. This is due to the time that it takes the AudiaFlex's processor to process a dial command then send it to the dialer. This module has (4) four parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. ADDRESS is the device's ID and is automatically assigned when the .dap file is compiled. INSTANCE is the "Logic Block's" ID that is automatically assigned when the .dap file is compiled. LENGTH is the total number of characters allowed for dialing within a dialing string or preset. Entries Per Page is the number of dialer presets to be displayed per page. NOTE: THIS MODULE WAS DEVELOPED AND TESTED WITH THE BIAMP AUDIAFLEX. THE INCLUDED .DAP FILE WAS PROVIDED BY BIAMP, AND IS FOR THE AUDIAFLEX ONLY. ACCORDING TO BIAMP, THESE MODULES WILL WORK FOR THE NEXIA. A CONFIGURATION FILE WILL NEED TO BE CREATED FOR THE NEXIA (NOT PROVIDED), AND WILL BE REQUIRED FOR OPERATION OF THE UNIT. FOR MORE INFORMATION ABOUT CONFIGURATION FILES AND HOW TO CREATE THEM PLEASE CONTACT BIAMP. Presets are stored internally in the Crestron processor. Speed Dial Entries are stored in the BiAmp. 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 v7.0.dap) was created by Crestron for testing purposes and MUST be used for proper operation of the v7.0 Demo Pro2 program. When the Initialize input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 is pulsed, the BiAmp AudiaFlex + Nexia Command Processor v7.0 module will send out initialization strings to each of the To_Module_* outputs, asking for the connected module's command type, instance ID or Tag and indexes. The control module will transmit that information out its Instance_ID_to_Processor output. The Instance_ID_to_Processor output of a control module must be connected to one of the Module_*_Instance_ID inputs. The corresponding To_Module_* output must be connected to the From_Processor input of the same control module.

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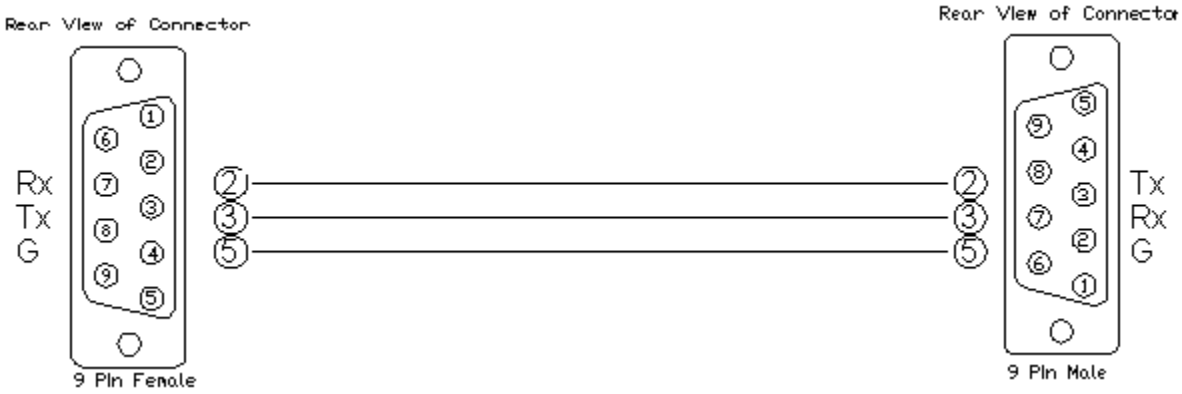
CRESTRON HARDWARE REQUIRED:	ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 38400 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	4.560



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CONTROL:

On/Off_Hook	D	Pulse to put TI-2 interface on and off hook.
Dial	D	Pulse to dial current string displayed on the Dialer Text field
Redial	D	Pulse to re-dial previously dialed phone number
KEYPAD-*	D	Pulse to enter the number to dial.
Get_Speed_Dial_Names	D	Pulse to get the speed dial names from the BiAmp. Will then display the first page of entries.
First	D	Pulse to display the first page of speed dial entries.
Scroll_Up/Down	D	Pulse to scroll up or down in the list. This is a true scroll and will advance only one entry at a time in each direction.
Dial_Speed_Dial_Entry_*	D	Pulse to dial the desired speed dial entry.
Preset_<0-16>	D	Pulse to select the preset. These are stored internally in the Crestron processor. Press and hold for 3 seconds to store the currently displayed phone number in the speed dialer memory. Stored feedback will go high for 3 seconds
Poll_Enable	D	Pulse to poll TI-2 interface for its current hook status. This MUST be done.
From_Processor	S	Serial data signal to be routed from one of the To_Module_* outputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module.

FEEDBACK:

Phone_is_On/Off_Hook	D	True feedback indicating current hook status.
Speed_Dial_Name_*_Text	S	Serial signal indicating the speed dial names from the BiAmp.
Preset_Stored	D	True feedback indicating a speed dial has been stored.
Phone_Number_Text	S	Serial text string displaying the current phone number to be dial or stored.
To_Processor	S	Serial data signal to be sent to the Biamp AudiaFlex + Nexia Command Processor v5.1.
Instance_ID_to_Processor	S	Serial signal to be routed to one of the Module_*_Instance_ID inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module.

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PARAMETERS:

ADDRESS	ASCII	Device address automatically assigned after the Biamp .dap file is compiled
INSTANCE	ASCII	Logic Block ID assigned after the Biamp .dap file is compiled
LENGTH	ASCII	Total length of phone number string to be dialed or stored
Entries Per Page	ASCII	Number of Speed Dial Entries to be displayed per page. Maximum is 16.

TESTING:

OPS USED FOR TESTING:	3.155.1240
SIMPL WINDOWS USED FOR TESTING:	2.10.32
DEVICE DB USED FOR TESTING:	20.02.009.00
CRESTRON DB USED FOR TESTING:	20.00.05.00
SAMPLE PROGRAM:	BiAmp AudiaFlex + Nexia v7.0 Demo Pro2
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. V5.1-Changed the Command Processor module to handle the response for presets. Also eliminated the Command Processor sending any response if the unit ID is determined to be 0. Changed all of the modules to allow instance IDs up to 65534d. Changed all modules to look for the proper channel ID. Added MBMUTE command to the On-Off module. V7.0 – Changed all modules to allow the use on Instance ID Tags. Changed the volume control module to allow for the selection of the size of the volume change step. Changed the command processor module to handle all filtering of the feedback. Eliminated the unit buffer module. Also eliminated the need for using serial buffers.

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