

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



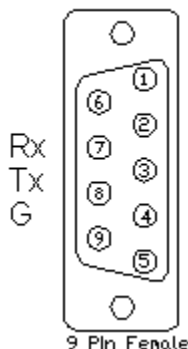
GENERAL INFORMATION

SIMPLWINDOWS NAME:	BiAmp AudiaFlex + Nexia Command Processor Serial v7.2
CATEGORY:	Mixer
VERSION:	7.2
SUMMARY:	This module controls all serial communication with the BiAmp AudiaFlex or Nexia.
GENERAL NOTES:	<p>This module controls all communication with the BiAmp AudiaFlex or Nexia.</p> <p>There are 500 serial outputs on this module, one for each of up to 500 control modules. All responses from the BiAmp are processed by this module and sent to the appropriate serial output for that module.</p> <p>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.</p> <p>This information is all contained in the Block properties field when developing the .dap file within the BiAmp AudiaFlex Windows software or the .nex file within the BiAmp Nexia software. A .dap file (Crestron Test w-VOIP.dap) was created for Crestron testing purposes and MUST be used for proper operation of the BiAmp AudiaFlex + Nexia Serial v7.2 Demo PRO2 program. A .nex file (2 tc Room Combining.nex) was created for Crestron testing purposes and MUST be used for proper operation of the BiAmp AudiaFlex + Nexia IP v7.2 Demo PRO2 program.</p> <p>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. THIS MODULE WILL WORK WITH THE NEXIA.</p> <p>When the Initialize input on the BiAmp AudiaFlex + Nexia Command Processor Serial v7.2 is pulsed, the BiAmp AudiaFlex + Nexia Command Processor Serial v7.2 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 back to the processor module on the To_Processor output. The individual control modules can be connected in groups with empty gaps between the module connections. This could cause the initialization process to take up to a minute and a half to complete.</p> <p>NOTE: The Initialize input is locked out for 60 seconds after the Crestron processor boots up.</p>
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

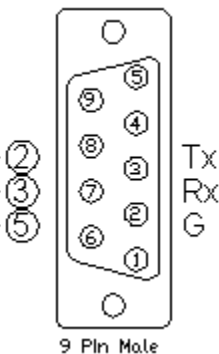
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Rear View of Connector



Rear View of Connector



CONTROL:

Initialize	D	Pulse to initialize the communications between all of the BiAmp modules being used in the Crestron program. This input is locked out for 60 seconds after the Crestron processor boots up.
From_Device	S	Serial signal to be routed from a 2-way com port.
From_Modules	S	Serial signal to be routed from all BiAmp control modules in the program.

FEEDBACK:

Initialize_is_Busy	D	High to indicate that the module is busy initializing communications with the other BiAmp control modules.
To_Device	S	Serial signal to be routed to a 2-way com port.
To_Module_*	S	Serial signal to be routed to the From_Processor input on a single BiAmp control module.

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**TESTING:**

OPS USED FOR TESTING:	4.001.1012
SIMPL WINDOWS USED FOR TESTING:	2.11.18
DEVICE DB USED FOR TESTING:	20.10.005.03
CRESTRON DB USED FOR TESTING:	20.05.21.00
SAMPLE PROGRAM:	BiAmp AudiaFlex + Nexia Serial v7.2 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.

V7.1 – Fixed an issue in the Processor module that allowed feedback from the BiAmp to be sent to the wrong module. Also fixed an issue in the level control module with controlling the AEC Inputs.

V7.2 – Created separate processor module for IP and Serial control. The IP processor module sets the telnet echo to off. Fixed an issue in the BiAmp AudiaFlex + Nexia Dialer module where a wait statement in Simpl+ was not programmed correctly. Fixed an issue with the processor module that allowed the processor to "lockup" if the queue pointers in the wrapped around. Changed the method that the processor module uses to collect the InstanceID information. The new method should be less confusing to program. Added a Simpl Windows gather to the processor modules to reduce the number of entries into the Simpl+. Added code to the control modules to prevent buttons presses for frequently than every 1 second.