



Model: AudiaFlex & Nexia

Device Type: DSP



SIMPLWINDOWS NAME: BIAmp AudiaFlex + Nexia Level Control v7.0 Mixor 7.0 SUMMARY: This module controls any level point in the BiAmp AudiaFlex or Nexia. This module will control any level point in the BiAmp AudiaFlex and Nexia. This module will control any level point in the BiAmp AudiaFlex + Nexia Command Processor v7.0 um module. The command processor module processors all transmitted and received serial strings and reformats device feedback so that this data can be sent to the proper module processing. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID_ID_Processor must be connected to one of the Module_" Instance_ID_ID_Processor must be connected to one of the Module_" Instance_ID_ID_Processor must be connected to one of the Module_" Instance_ID_ID_Processor must be connected to one of the Module_" Instance_ID_ID_Processor must be connected to one of the Module_" Instance_ID_ID_Processor must be connected to one of the Module_" Instance_ID_ID_Processor must be connected to one of the Module_" Instance_ID_ID_Processor must be connected from the corresponding To_Module_" output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 (8) elght parameter fleds, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_Iype is the control block type. This selected from a drop down list. Volume_Device_Ibia. In each of the control block type. This selected from a drop down list. Volume_Device_Ibia. It is the vicine from the BiAmp software. This is typically the channel, input or output number to be controlled. Volume_Inde	CATEGORY: Mixer 7.0 SUMMARY: This module controls any level point in the BiAmp AudiaFlex or Nexia. This module will control any level point in the BiAmp AudiaFlex and Nexia. This module will control any level point in the BiAmp AudiaFlex and Nexia. This module will control any level point in the BiAmp AudiaFlex + Nexia Command Processor V.0. umc module. The command processor 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. The To. Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor V.0 module. The Instance. ID. In Processor input on this module must be connected to one of the Module. * Instance. ID inputs on the BiAmp AudiaFlex + Nexia Command Processor V.0 module. The From_Processor input on this module must be connected from the corresponding To_Module. * output on the BiAmp AudiaFlex + Nexia Command Processor V.0 module. The From_Processor input on this module must be connected from the corresponding To_Module. * output on the BiAmp AudiaFlex + Nexia Command Processor V.0 module. When polling the BiAmp for current status, you should poil for only the information you really need at the time. The more data points you poil for at one time, the longer it will task to get an update for any one data point. It is should not normally be necessary to poil for all data points all the time. This module has (8) eight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_ID is the devices ID and is automatically assigned when the .dap file is compiled. Alternately, the Volume_Device_ID is the devices ID and is automatically assigned when the .dap file is compiled. Alternately, the Volume_Device_Instance is the *Logic Block*s* ID that is automatically assigned when the .dap file wolume the volume levels longer limit in this should be entered as the	GENERAL INFORMATIO	N
VERSION: 7.0 SUMMARY: This module controls any level point in the BiAmp AudiaFlex or Nexia. GENERAL NOTES: This module will control any level point in the BiAmp AudiaFlex and Nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor v7.0umc module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID_inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module. The BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module. The Instance_ID inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. When polling the BiAmp for current status, you should poil for only the information you really need at the time. The more data points you poil 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 poil for all data points all the time. This module has (8) elight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_Type is the control block type. This selected from a drop down list. Volume_Device_ID is the device's ID and is automatically assigned when the .dap file is compiled. All parameters are entered as ASCII characters, the Volume_Index_I is the first index number from the BiAmp software. This is typically the channel, input or output number to be controlled. Volume_Index_2 is the second index number from the BiAmp advance. In a lot of cases the dap file. Volume_Index_I is the first index number from the BiAmp software. This is typica	VERSION: 7.0 SUMMARY: This module controls any level point in the BiAmp AudiaFlex or Nexia. This module will control any level point in the BiAmp AudiaFlex and Nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor v7.0 umc module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID_inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 (8) eight parameter fleks, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_Type is the control block type. This selected from a drop down list. Volume_Device_Type is the control block type. This selected from a drop down list. Volume_Device_Type is the control block type. This selected from a drop down list. Volume_Device_Up is the device's ID and is automatically assigned when the .dap file is compiled. Nume_Uper_Limit is the volume level in the .dap file. Volume_Uper_Limit is the volume level in the .dap file. Volume_Uper_Limit is the volume level in the .dap file. Volume_Uper_Limit is the volume level in the .dap file volume	SIMPLWINDOWS NAME:	BiAmp AudiaFlex + Nexia Level Control v7.0
SUMMARY: This module controls any level point in the BiAmp AudiaFlex or Nexia. This module will control any level point in the BiAmp AudiaFlex and Nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor v7.0.umc module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 (8) eight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_I pie is the device's ID and is automatically assigned when the dap file is compiled. Volume_Device_I list the device's ID and is automatically assigned when the dap file is compiled. Alternately, the Volume_Device_I list interest in the volume from the BiAmp software. This is typically the channel, input or output number to be controlled. Volume_Index_2 is the second index number from the BiAmp software. In a lot of cases this will be zero. Volume_Index_1 is the first index number are allowed. Volume_Loke_Init is the volume developer limit. This should be entered as	SUMMARY: This module controls any level point in the BiAmp AudiaFlex or Nexia. GENERAL NOTES: This module MUST be used in conjunction with the BiAmp AudiaFlex - Nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex - Nexia. Command Processor v7.0 unce module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex - Nexia Command Processor v7.0 module. The Instance_ID_inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 all one 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 (8) eight parameter Fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_Type is the control block type. This selection from a drop down list. Volume_Device_Type is the control block type. This selection from a drop down list. Volume_Device_Type is the control block type. This selected from a drop down list. Volume_Device_Instance could be the Instance TAG entered him and applie is compiled. Note the processor the proper down list. The option in the day file is compiled. Note the proper down list is automatically assigned when the .dap file	CATEGORY:	Mixer
GENERAL NOTES: This module will control any level point in the BiAmp AudiaFlex and Nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor Vo. Jume module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor V-1 module. The Instance_ID_Lot_Processor must be connected to one of the Module_*_Instance_ID inputs on the BiAmp AudiaFlex + Nexia Command Processor V-1.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor V-1.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor V-1.0 module. 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 (9) eight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_Type is the control block type. This selected from a drop down list. Volume_Device_Type is the control block type. This selected from a drop down list is automatically assigned when the dap file is compiled. Volume_Device_Instance could be the Instance TAG Blocks* ID that is automatically assigned when the dap file is compiled. Volume_Love_Instance could be the Instance TAG Blocks* ID that is automatically assigned when the dap file is compiled. Volume_Love_Instance could be the Instance TAG Blocks* ID that is automatically assigned when the dap file with the Blamp	GENERAL NOTES: This module will control any level point in the BiAmp AudiaFlex or Nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor v7.0 ume module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID_To_Processor must be connected to one of the Module_T. Instance_ID inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 (8) eight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_ID is the device's ID and is automatically assigned when the .dap file is compiled. Volume_Device_ID is the device's ID and is automatically assigned when the .dap file is compiled. In the day of the company of the proper from the day of the company of the proper from the day of the company of the proper from the BiAmp software. This is typically the channel, input or output number to be controlled. Volume_Index_2 is the second index number from the BiAmp software. In a lot of cases this will be zero. Volume_Index_1 is the first index number from the BiAmp software. This is typically the channel, input or output numbers are allowed. Volume_Lotex_2 is the second index number from the BiAmp software. In a lot of cases this will	VERSION:	7.0
This module will control any level point in the BiAmp AudiaFlex and Nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor v7.0.umc module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID_to_Processor must be connected to one of the Module_* Instance_ID inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 (8) eight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_ID is the device's ID and is automatically assigned when the .dap file is compiled. Volume_Device_Instance could be the Instance TAG entered from a drop down list. Volume_Device_I instance could be the Instance TAG entered in the .dap file. Volume_Device_Instance could be the Instance TAG entered in the .dap file. Volume_Device_Instance could be the Instance TAG entered in the .dap file. Volume_Undex_1 is the first index number from the BiAmp software. In a lot of cases this will be zero. Volume_Upper_Limit is the volume level's upper limit. This should be entered as the dB level and negative numbers are allowed. Volume_Upper_Limit is the volume level's upper limit. This should be for proper operation of the BiAmp AudiaFlex Proker on the BiA	This module will control any level point in the BiAmp AudiaFlex A nexia. This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor v7.0.umc module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID_to_Processor must be connected to one of the Module_* Instance_ID_inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 all 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 (8) eight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_Type is the control block type. This selected from a drop down list. Volume_Device_Istance is the "closel block's" ID that is automatically assigned when the .dap file is compilled. Volume_Device_Instance is the "close Block's" ID that is automatically assigned when the .dap file is compiled. Wolume_Device_Instance is the "close Instance TAG entered in the .dap file Volume_Device_Instance could be the Instance TAG entered in the .dap file volume_Upper_Limit is the wolume level's upper limit. This should be entered as the dB level and negative numbers are allowed. Volume_Step is the number of dB to adjust the volume Block proper operation of the BiAmp Software. In a lot of cases this will be zero. Volume_Upper_Limit is the volume level's uppe	SUMMARY:	This module controls any level point in the BiAmp AudiaFlex or Nexia.
INFORMATION ABOUT CONFIGURATION FILES AND HOW TO CREATE THEM PLEASE		GENERAL NOTES:	This module MUST be used in conjunction with the BiAmp AudiaFlex + Nexia Command Processor v7.0.umc module. The command processor 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. The To_Processor output of this module must be connected to the From_Modules input on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The Instance_ID_to_Processor wust be connected to one of the Module_*_Instance_ID inputs on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. The From_Processor input on this module must be connected from the corresponding To_Module_* output on the BiAmp AudiaFlex + Nexia Command Processor v7.0 module. 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 (8) eight parameter fields, all of which must be set for proper module operation. All parameters are entered as ASCII characters. Volume_Device_ID is the device's ID and is automatically assigned when the .dap file is compiled. Volume_Device_Instance is the "Logic Block's" ID that is automatically assigned when the .dap file is compiled. Alternately, the Volume_Device_Instance could be the Instance TAG entered in the .dap file. Volume_Index_1 is the first index number from the BiAmp software. This is typically the channel, input or output number to be controlled. Volume_Index_2 is the second index number from the BiAmp software. This is typically the channel, input or output number of dB to adjust the volume by with each volume adjustment. This selected from a dropdown list. The options are 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5 and 6.0. This information is all contained in the Block properties field when developing the .dap file within the





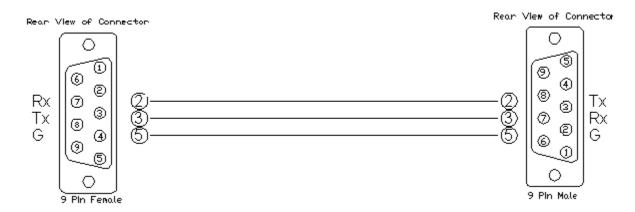
VENDOR FIRMWARE:

Model: AudiaFlex & Nexia

Device Type: DSP



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



4.560

CONTROL:		
Volume_Up/Down	D	Press and hold to adjust the volume level.
New_Volume_Level	Α	Analog value of volume level. This is the signed dB level to set the volume level to. Will be sent when the Send_New_Level input is pulsed. This will allow preset values to be sent to the BiAmp.
Send_New_Level	D	Pulse to send the volume entered in the New_Volume_Level input. This will allow preset values to be sent to the BiAmp.
Poll_Level	D	Pulse to poll for the current value.
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.





Model: AudiaFlex & Nexia

Device Type: DSP



FEEDBACK:		
Volume_Gauge	Α	Analog value indicating the current volume level. To be displayed using a gauge on a touch panel.
Volume_Level_Sign_Unscaled	Α	Analog volume level value. This is the signed dB level. To be displayed using a digital gauge on a touch panel.
Volume_Level_Text	S	Serial signal indicating the current volume level. This will show from -100.0 to 12.0
To_Processor	S	Serial data signal to be sent to the BiAmp AudiaFlex + Nexia Command Processor v7.0.
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.

PARAMETERS:		
Volume_Device_Type	ASCII	Select the proper device type from the drop down list.
Volume_Device_ID	ASCII	Device address automatically assigned after the BiAmp .dap file is compiled
Volume_Device_Instance	ASCII	Logic Block ID assigned after the BiAmp .dap file is compiled
Volume_Index_1	ASCII	Volume index to be controlled. This is the input, channel or output number being controlled.
Volume_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.
Volume_Upper_Limit	ASCII	This is the upper limit for the volume level being controlled. This is the signed dB value.
Volume_Lower_Limit	ASCII	This is the lower limit for the volume level being controlled. This is the signed dB value.
Volume_Step	ASCII	Select the volume step value from the dropdown list. Default is 1.0 dB.





Model: AudiaFlex & Nexia

Device Type: DSP



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.			