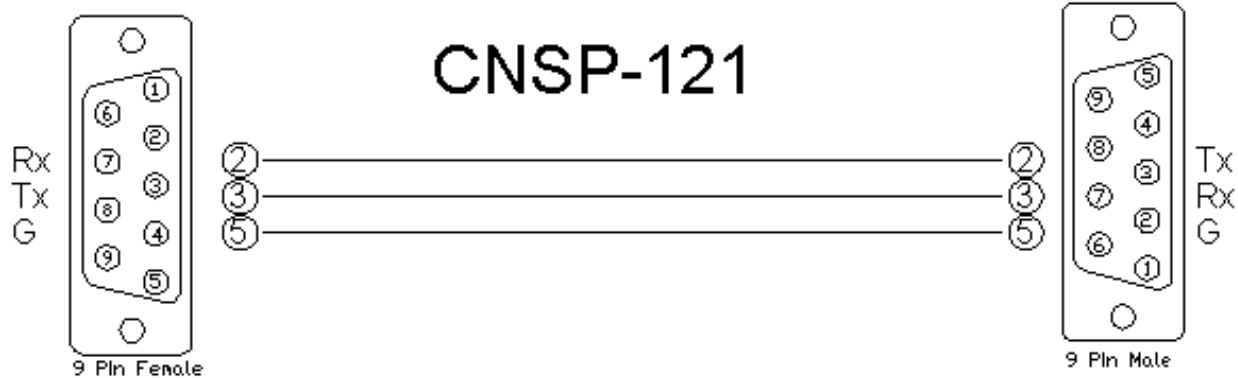


Partner: TOA
Model: A-9000
Device Type: Multi-Channel Amplifier

**GENERAL INFORMATION**

SIMPLWINDOWS NAME:	TOA A-9000 Amplifier v2
CATEGORY:	Amplifier
VERSION:	2.00
SUMMARY:	This module controls the TOA A-9000 Amplifier.
GENERAL NOTES:	<p>This module controls all of the available RS-232 functions of the TOA A-9000 Series Amplifier. It was tested with a TOA A-9120DH Amplifier. It should also control any other TOA amplifier in the 9000 series.</p> <p>At the time of module creation, there was no feedback except command echo available from the device.</p> <p>The device has 2 modes – 1) Matrix Mode and 2) Mixer Mode. The X-Point functions will only operate while in Mixer Mode.</p> <p>The device's available Inputs, Outputs and Cross Points are hardware configured by optional I/O cards. Only physically available Inputs, Outputs, and Cross Points can be controlled.</p> <p>Version 2 addresses some changes in the volume step command, the range of cross point volumes and adds several new functions. The new functions are: Channel Input On/Off, Channel Input Phantom Power On/Off, Channel Input Treble and Bass, and Channel Input EQ. These new commands also apply to output channels with the exception of phantom power.</p>
CRESTRON HARDWARE REQUIRED:	C2I-COM, ST-COM, C2-COM-2/3 or CNX-COM2
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 57600 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	V3.11
VENDOR SETUP:	Device must be set to MixerMode in order for X-Point control functionality to be processed by the device.
CABLE DIAGRAM:	CNSP -121

Partner: TOA
Model: A-9000
Device Type: Multi-Channel Amplifier



CONTROL:

Power_On/Off	D	Pulse for power on/off
Input/Output_Channel_*_On/Off	D	Pulse for input channel on/off
Input/Output_Channel_*_Treble_Up/Down	D	Pulse for input channel treble up/down
Input/Output_Channel_*_Bass_Up/Down	D	Pulse for input channel bass up/down
Input/Output_Channel_*_EQ_On/Off	D	Pulse for input channel EQ on/off. Note: EQ on will trigger whatever is set on the EQ settings page to the channel selected for EQ on.
Input_Channel_*_Phantom_Power_On/Off	D	Pulse for input channel phantom power on/off
EQ_Filter	A	Analog signal representing the desired band filter. The defined EQ will be set each time the EQ On command is sent for a given channel.
EQ_Gain	A	Analog signal representing the desired gain. The defined EQ will be set each time the EQ On command is sent for a given channel.
EQ_Q_Value	A	Analog signal representing the desired Q value. The defined EQ will be set each time the EQ On command is sent for a given channel.
EQ_Frequency	A	Analog signal representing the desired frequency. The defined EQ will be set each time the EQ On command is sent for a given channel.
EQ_Filter_*	D	Pulse to change filter for EQ
EQ_Gain*	D	Pulse to change gain value for EQ
EQ_Q_Value_*	D	Pulse to change Q value for EQ

Partner: TOA
Model: A-9000
Device Type: Multi-Channel Amplifier



EQ_Frequency_*	D	Pulse to change frequency value for EQ
Input_*_Vol_Up	D	Press and hold to raise the level of the selected Input Channel
Input_*_Vol_Down	D	Press and hold to lower the level of the selected Input Channel
Output_*_Up	D	Press and hold to raise the level of the selected Output Channel
Output_*_Down	D	Press and hold to lower the level of the selected Output Channel
X-Point_Source_(0d-7d)	A	Analog signal representing the desired input channel of the cross point to be controlled. Valid values are from 0-7 representing input channels 1-8 respectively. The unit will only process x-Point operations if the device is in Mix Mode.
X-Point_Destination_(0d-7d)	A	Analog signal representing the desired output channel of the cross point to be controlled. Valid values are from 0-7 representing output channels 1-8 respectively. The unit will only process x-Point operations if the device is in Mix Mode.
X-Point_Vol_Up	D	Press and hold to raise the cross point volume defined by the X-Point Source and the X-Point_Destination signals described above. The unit will only process x-Point operations if the device is in Mix Mode.
X-Point_Vol_Down	D	Press and hold to raise the cross point volume defined by the X-Point Source and the X-Point_Destination signals described above. The unit will only process x-Point operations if the device is in Mix Mode.
X-Point_Level%_(0%-100%)	A	Analog signal representing the desired percentage for the cross point volume (previously defined by the X-Point_Source and X-Point_Destination signals described above) to go directly to. The defined cross point will be set each time a value is placed at this input signal.
Preset_*	D	Pulse to recall the system setup preset desired

FEEDBACK:

To_Device\$	S	Serial signal to be routed to the TX side of the com port used to control the device
-------------	---	--

TESTING:

OPS USED FOR TESTING:	PRO2: Cntrl Eng v3.155.1143 (Jun 20 2006) Compiler: v 2.07.22
SIMPL WINDOWS USED FOR TESTING:	2.08.26

Partner: TOA
Model: A-9000
Device Type: Multi-Channel Amplifier



CRES DB USED FOR TESTING:	18.5
SYMBOL LIBRARY USED FOR TESTING:	444
SAMPLE PROGRAM:	TOA A-9000 Amplifier Demo - Pro2 v2
REVISION HISTORY:	V. 2.0