

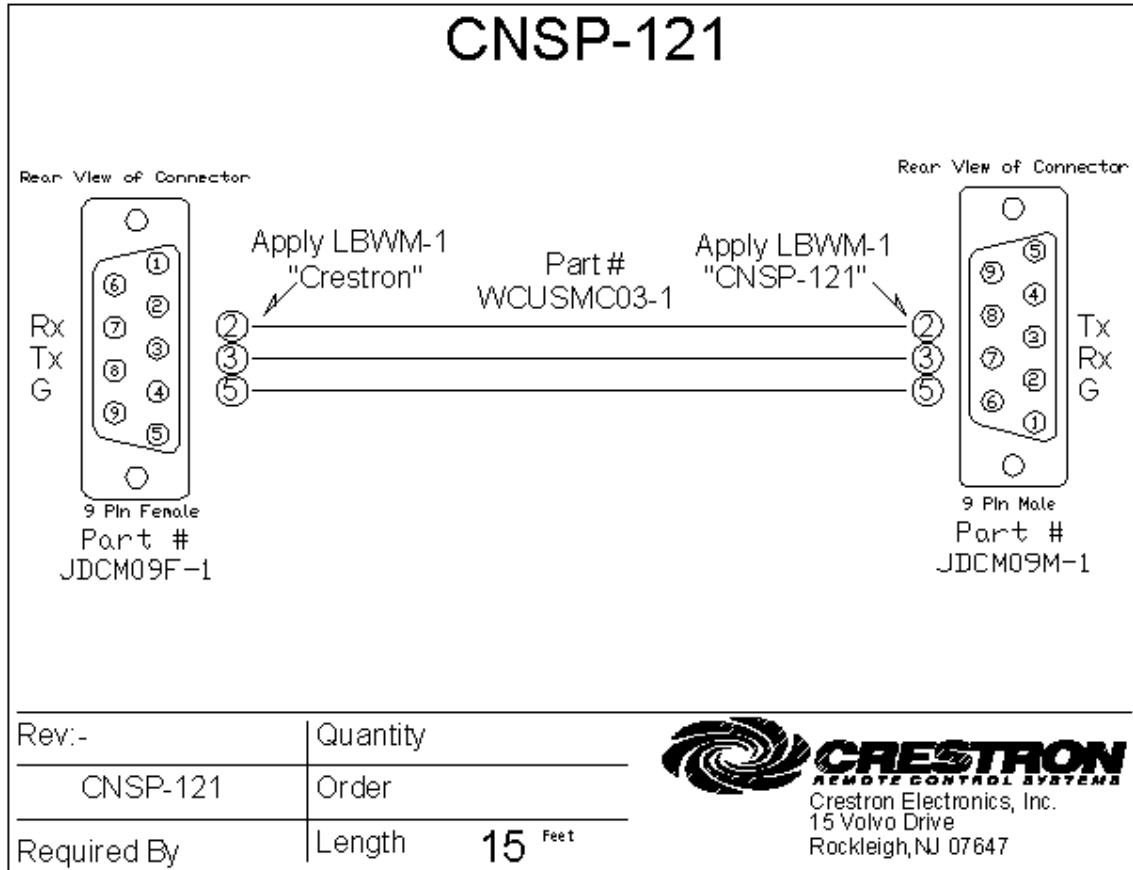
**Partner: TOA**  
**Model: 9000M2**  
**Device Type: Audio Switcher**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	TOA 9000M2 V1.0
<b>CATEGORY:</b>	Amplifier
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module controls the TOA 9000M2 Amplifier
<b>GENERAL NOTES:</b>	<p>This module controls the available RS-232 functions of the TOA 9000M2 series amplifier. It was tested using the 9000M2 amplifier but should also control any other TOA amplifier in the series.</p> <p>The amplifier has 2 modes- 1)Matrix mode and 2)Mixer mode .the X-Point functions will only operate while in mixer mode.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	C2I-COM, ST-COM, C2-COM2/3, or CNX-COM2
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 57,600 Parity: N Data bits: 8 Stop bits: 1
<b>VENDOR FIRMWARE:</b>	V3.11
<b>VENDOR SETUP:</b>	Device must be set to mixer Mode in order for X-Point control functionality to be processed by the device
<b>CABLE DIAGRAM:</b>	CNSP-121

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**CONTROL:**

Power_On	D	Pulse to power on the unit
Power_Off	D	Pulse to power off the unit
Input_x_on	D	Pulse to power on input x
Input_x_off	D	Pulse to power off input x
Input_x_vol_up	D	Pulse to turn volume up
Input_x_vol_down	D	Pulse to turn volume down
Input/Output_Treble_up	D	Pulse to turn treble up
Input/Output_Treble_down	D	Pulse to turn treble down
Input/Output_Bass_up	D	Pulse to turn bass up
Input/Output_Bass_down	D	Pulse to turn bass down
Input/Output_EQ_On	D	Pulse to turn EQ on
Input/Output_EQ_Off	D	Pulse to turn EQ off
Input/Output_Phantom_Power_on	D	Pulse to turn Phantom Power on
Input/Output_Phantom_Power_off	D	Pulse to turn Phantom Power off
X-Point_Source	A	Selects the X-point source
X-Point_Destination	A	Selects the X-point Destination
X-Point_Vol_Up	D	Pulse to turn up the volume up for the selected X-point
X-Point_Vol_Down	D	Pulse to turn the volume down for the selected X-point
X-Point_level	A	Pulse to set the X-point level
Preset_X	D	Pulse to recall the selected preset

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EQ_Filter	A	Analog value representing the desired band filter
EQ_Gain	A	Analog value representing the desired gain.
EQ_Frequency	A	Analog value representing the desired frequency

### FEEDBACK:

Power_is_On	D	High when the power is on
Power_is_Off	D	High when the power is off
Input/Output_is_On	D	High when the corresponding Input/Output is on
Input/Output_is_Off	D	High when the corresponding Input/Output is off
Input/Output EQ_is_On	D	High when the corresponding Input/Output EQ is on
Input/Output EQ_is_Off	D	High when the corresponding Input/Output EQ is off
Input/Output_Phantom_power_is_on	D	High when the corresponding Input/Output Phantom Power is on
Input/Output_Phantom_power_is_off	D	High when the corresponding Input/Output Phantom Power is off

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	MC3 Cntrl Eng 1.006.0026
<b>SIMPL WINDOWS USED FOR TESTING:</b>	3.01
<b>CRES DB USED FOR TESTING:</b>	37.00.0013
<b>DEVICE DATABASE:</b>	48.000.002
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	508
<b>SAMPLE PROGRAM:</b>	TOA 9000M2 Amplifier v1.0
<b>REVISION HISTORY:</b>	V1.0