

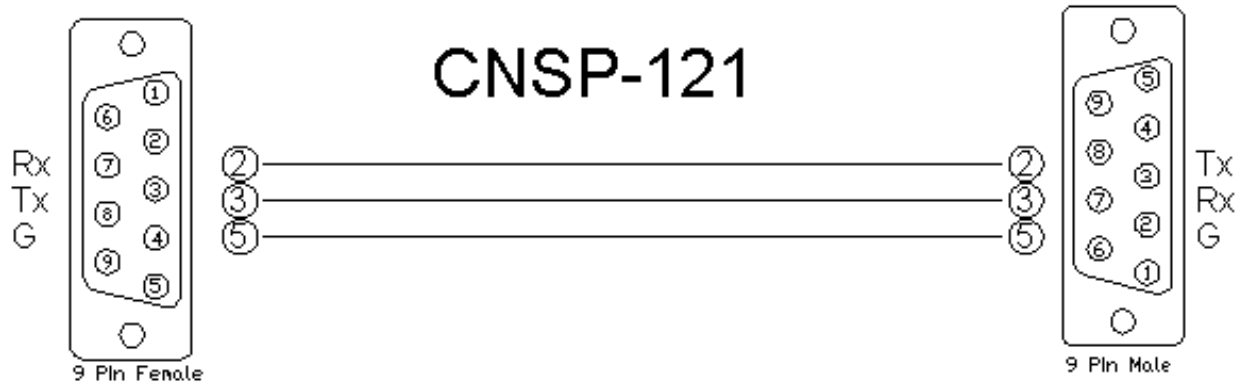
**Partner: SunFire**  
**Model: Theater Grand IV**  
**Device Type: Tuner/Preamplifier**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Sunfire Theater Grand IV – Pream-Tuner.umc
<b>CATEGORY:</b>	Receiver/Processor
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module will control all of the run-time functions of the SunFire Theater Grand IV AM/FM Tuner/Preamplifier.
<b>GENERAL NOTES:</b>	<p>This module will control all of the run-time functions of the SunFire Theater AM/FM Tuner/Preamplifier. It will also control most of the run-time functions of the Sunfire Ultimate Receiver.</p> <p>The Poll_Device input of the module must be set high whenever a page that displays the Theater Grand IV's status is active. The status of the system cannot be properly read without polling enabled.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	CNXCOM, C2-COM, ST-COM
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	Main Code 4.17, Boot Code 2.00, VFC 1.01, DSP AX6_RI13P, Front Panel 1.0, Logic TGUR10-BO
<b>VENDOR SETUP:</b>	In order for Zone 2 controls to work, Zone 2 must be enabled through the On-Screen Display menus (can use the macro's OSD controls to do so). Also, the Main system power must be on, and the Zone 2 power must also be on.
<b>CABLE DIAGRAM:</b>	CNSP-121

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**CONTROL:**

	D	Must be set high whenever displaying device status
<b>Power_On</b>	D	Pulse to turn on device power
<b>Power_Off</b>	D	Pulse to turn off device power
<b>Power_Toggle</b>	D	Pulse Toggle the power status of the device
<b>Input_*</b>	D	Pulse these inputs to go to the desired external inputs of the device
<b>Input_Tuner</b>	D	Pulse to go to the built-in Tuner Input
<b>DSP_*</b>	D	Pulse to select the desired DSP Mode
<b>Holo_Toggle</b>	D	Pulse to toggle Holographic mode on/off
<b>Holo_On</b>	D	Pulse to turn Holographic mode On
<b>Holo_Off</b>	D	Pulse to turn Holographic mode Off
<b>Mute_Toggle</b>	D	Pulse to toggle Main Mute On/Off
<b>Mute_On</b>	D	Pulse to Mute the Main outputs
<b>Mute_Off</b>	D	Pulse to Unmute the Main outputs
<b>Volume_Up</b>	D	Press and Hold to raise the Main Volume
<b>Volume_Down</b>	D	Press and Hold to lower the Main Volume

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Band_AM	D	Pulse to change the Tuner Band to AM
Band_FM	D	Pulse to change the Tuner Band to FM
Tune_Up	D	Press and Hold to tune up the AM/FM tuner
Tune_Down	D	Press and Hold to tune down the AM/FM tuner
Scan_Up	D	Pulse to Scan to the next higher station
Scan_Down	D	Pulse to scan to the next lower station
Preset_*	D	Pulse to select the desired preset, press and hold to save the current station to that preset.
Neo6_Music	D	Pulse to change the Neo6 mode to Music (also changes current DSP mode to Neo6)
Neo6_Cinema	D	Pulse to change the Neo6 mode to Cinema (also changes current DSP mode to Neo6)
dts_LFE_Music	D	Pulse to change the dts mode to Music
dts_LFE_Cinema	D	Pulse to change the dts mode to Cinema
Pro_Logic_II_Music	D	Pulse to change the Pro Logic II mode to Music (also changes current DSP mode to Pro Logic)
Pro_Logic_II_Cinema	D	Pulse to change the Pro Logic II mode to Cinema (also changes current DSP mode to Pro Logic)
Pro_Logic_II_Matrix	D	Pulse to change the Pro Logic II mode to Matrix (also changes current DSP mode to Pro Logic)
Subwoofer_Normal	D	Pulse to put the subwoofer into Normal mode
Subwoofer_Enhanced	D	Pulse to put the subwoofer into Enhanced mode
Z2_Power_On	D	Pulse to turn on Zone 2 Power
Z2_Power_Off	D	Pulse to turn off Zone 2 Power
Z2_Power_Toggle	D	Pulse to toggle Zone 2 power on/off
Z2_Input_*	D	Pulse to select the desired source for Zone 2

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OSD_*	D	Use these controls to manipulate around the On-Screen Display Menus. To enter OSD, pulse the OSD_Menu button. Use the arrow and enter keys to get around. To exit OSD, pulse the OSD_Exit input.
From_Device\$	S	Serial signal from a 2-way com port

### FEEDBACK:

Poll_Busy	D	This signal is high whenever the device is being polled
Power_*_Fb	D	True Feedback indicating the device's power status
Input_*_Fb	D	True feedback indicating the current Main source
DSP_*_Fb	D	True feedback indicating the current DSP Mode
Holo_*_Fb	D	True feedback indicating the status of the Holographic Mode
Mute_*_Fb	D	True feedback indicating the Main Mute status
Volume_Bar	A	True feedback indicating the Main Volume level
Band_*_Fb	D	True feedback indicating the current band the AM/FM tuner is tuned to
Station\$	S	String that indicates the current band and station that AM/FM tuner is tuned to
Preset_*_Fb	D	True feedback indicating which preset the AM/FM tuner is in
Signal_*_Fb	D	True feedback indicating which type of signal is being monitored
Z2_Power_*_Fb	D	True feedback indicating the Zone 2 power status
Z2_Input_*_Fb	D	True Feedback Indicating the current source for Zone 2
To_Device\$		Serial signal to a 2-way com port

### TESTING:

OPS USED FOR TESTING:	PRO2 Cntrl Eng [v3.137 (Release)]
COMPILER USED FOR TESTING:	2.00.31
SAMPLE PROGRAM:	Sunfire Theater Grand IV – Tuner-Preamp Demo Pro2.smw, Sunfire Theater Grand IV – Tuner-Preamp Demo CNMSX.smw

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REVISION HISTORY:

V. 1.0