

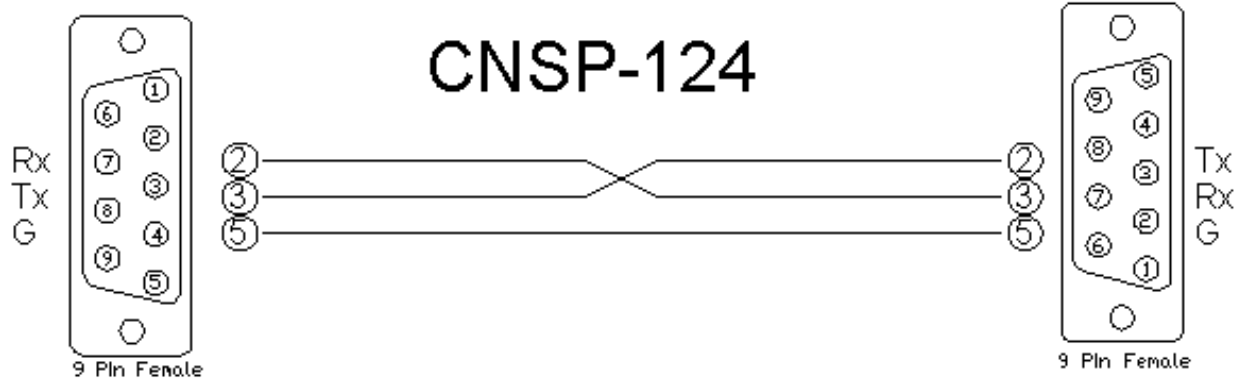
Partner: Primare
Model: SPA21 + SPA20
Device Type: DSP



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Primare SPA21 + SPA20 V1.0
CATEGORY:	Audio Processor
VERSION:	1.0
SUMMARY:	Controls all standard functions on Primare SPA21 + SPA20 audio processing system. Provides Real feedback.
GENERAL NOTES:	<p>This module will control a Primare SPA21 + SPA20. It was tested with an SPA21.</p> <p>Note: Manufacturer does not provide Auto status feedback.</p> <p>You may hold Poll_Enable high to poll for device status every 5 seconds. This is typically done on demand (when visiting control pages for this device). Power, Input, Volume, Mute and the Speaker balance, center, surround, back and subwoofers are the only polled feedbacks. During the time of initialization, the SPA21's processor ignores new commands. When a command is issued to the unit, a query for status for that command follows immediately.</p> <p>Note that all inputs to this module should be momentary, as if coming from a button on a touch panel. Inputs and discrete surround mode commands are queued and compared by this module and are repeated up to 5 times if needed to prevent missed commands.</p>
CRESTRON HARDWARE REQUIRED:	CNXCOM, ST-COM, C2COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 4,800 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	Software Version: 2.21
VENDOR SETUP:	N/A
CABLE DIAGRAM:	CNSP-124

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CONTROL:

Power_On/Off/Toggle	D	Pulse to turn the unit on or off.
Mute_On/Off/Toggle	D	Pulse to change the unit's mute on or off.
Input_*	D	Pulse to pick a source input (1-8 on this unit).
Volume_Up/Down	D	Press and hold to change the unit's volume level 1-99.
Balance_*	D	Pulse to change the unit's speaker balance states.
Center_*	D	Pulse to change the unit's speaker center states.
Surround_*	D	Pulse to change the unit's speaker surround states.
Back_*	D	Pulse to change the unit's speaker back/rear states.
Subwoofer_*	D	Pulse to change the unit's speaker subwoofer states.
Display_LCD_On/Off	D	Pulse to change the unit's LCD front panel display states.
Surround_Mode_*	D	Pulse to change the unit's surround mode discretely.
Verbose_On/Off	D	Pulse to toggle the unit's verbose modes.
Menu_Exit/Back/Enter	D	Pulse to use menus.
Recall_User_Settings	D	Pulse to recall user settings.

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Recall_Factory_Settings	D	Pulse to recall factory settings.
Recall_Installer_Settings	D	Pulse to recall installer settings.
Read_Software_Version	D	Pulse to recall current software revision of unit.
Poll_Enable	D	Hold high to enable polling of unit for it's input and processing settings every 1 second.
From_Device\$	S	Serial signal to be routed from a 2-way RS232 port.

FEEDBACK:

Power_On/Off_Fb	D	Real feedback indicating the power state.
Mute_On/Off_Fb	D	Real feedback indicating the mute state.
Input_Fb	D	Real feedback indicating the input state.
Volume_Bar	A	Real feedback value for current volume status to be directed to a bar gauge on a touch panel.
Balance\$	S	Real feedback value for current speaker balance status to be directed to an indirect text field on a touch panel.
Center\$	S	Real feedback value for current center speaker status to be directed to an indirect text field on a touch panel.
Surround\$	S	Real feedback value for current surround speaker status to be directed to an indirect text field on a touch panel.
Back\$	S	Real feedback value for current back/rear speaker status to be directed to an indirect text field on a touch panel.
Subwoofer\$	S	Real feedback value for current subwoofer speaker status to be directed to an indirect text field on a touch panel.
Surround_Mode_*_Fb	D	Real feedback indicating the surround mode state.
Software_Version\$	S	Real feedback value for current software revision status to be directed to an indirect text field on a touch panel.
To_Device\$	S	Serial signal to be routed to a 2 way RS232 port.

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**TESTING:**

OPS USED FOR TESTING:	PRO2 Cntrl Eng [v3.155.1240 (Feb 12 2007), #7F0056A2]
SIMPL WINDOWS USED FOR TESTING:	V. 2.08.44
CRES DB USED FOR TESTING:	V. 18.9.1
SYMBOL LIBRARY USED FOR TESTING:	V. 508
SAMPLE PROGRAM:	Primare SPA21 + SPA20 V1.0 Demo.smw
REVISION HISTORY:	V. 1.0