Partner: Polycom
Model: VSX7000 & VSX8000
Device Type: Video Conference
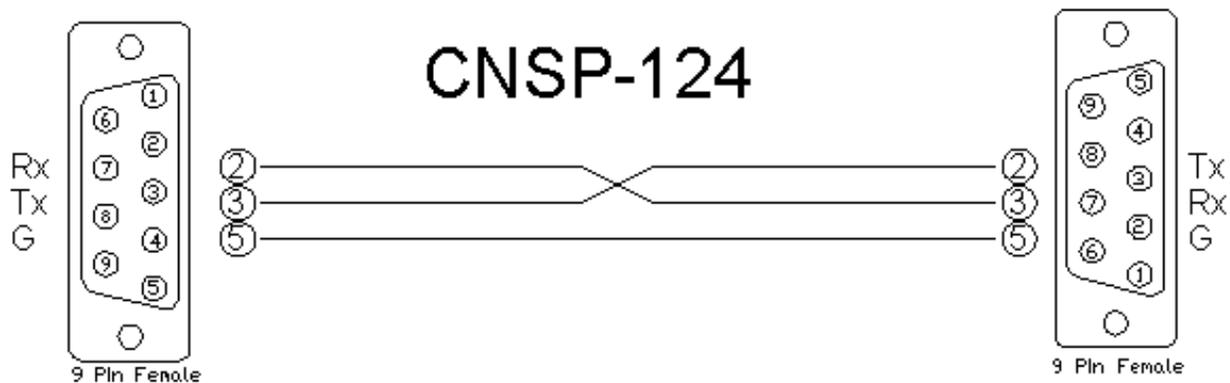
GENERAL INFORMATION

SIMPLWINDOWS NAME:	Polycom VSX7000 & VSX8000 Streaming Controls
CATEGORY:	Conferencing
VERSION:	1.0
SUMMARY:	Allows videoconferences to be streamed over the internet.
GENERAL NOTES:	This module is for control of the Polycom VSX7000 & VSX8000. You can communicate with these systems over RS232 or over TCP/IP. If using TCP/IP, follow these instructions: You MUST open up a Telnet session with the Polycom system. Therefore, you must have an Ethernet enabled control system. When programming the system in SimplWindows, you should insert a TCP/IP Client object into the Ethernet portion of the control system, in the configuration manager. In the program view, use 24D for the PORT parameter field. When it is desired to establish the Telnet session with the Polycom system, assert the CONNECT input on the TCP/IP Client. When the session has been successfully established, the CONNECT-F output will go high. It will then be possible to send commands to the Polycom system. When it is desired to end the Telnet session, de-assert the CONNECT input, and the connection will be dropped. Commands should only be sent to the TCP/IP Client TX\$ input when the connection is active. Therefore, you should connect the output of this module to the input of a Serial Buffer symbol, which is enabled by the CONNECT-F output of the TCP/IP Client. The output of the Serial Buffer should be connected to the TX\$ input of the TCP/IP Client. See the demo program for an example of this implementation. Note that before resetting the Crestron system (as happens when you load a new program, power cycle the system, etc), you should end the Telnet session with the Polycom system. If the session is active when the Crestron system resets, the session will not be closed properly, and the Polycom system mat need to be rebooted to recover properly. This module allows a video conference call to be streamed over the internet. Streaming must be enabled before you can start the stream. You can set the speed and the number of router hops to allow. You can also set the audio and video ports using the Key_* inputs. You can also enable the Polycom to announce when someone joins the streaming multicast.

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CRESTRON HARDWARE REQUIRED:	CNXENET+, C2ENET-1, C2ENET-2, CNXCOM, C2COM, ST-COM
SETUP OF CRESTRON HARDWARE:	TCP/IP: Install a TCP/IP Client Use port 24D. Be sure the set up the IP table to specify the IP address of the Polycom system for the IP ID of the TCP/IP Client. You MUST do a cold reboot of the control system after changing these parameters. RS232: Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	Snowbird 7.0
VENDOR SETUP:	You must set one of the com ports on the VSX to control mode.
CABLE DIAGRAM:	CNSP-124

CNSP-124

Rx Tx G — 9 Pin Female — Tx Rx G — 9 Pin Female

CONTROL:

Start/Stop	D	Pulse to start or stop the stream.
Enable/Disable	D	Pulse to enable and disable streaming.
Announce_On/Off	D	Pulse to turn the announce function on and off.
Speed_*	D	Pulse to select the speed.
Router_Hops_*	D	Pulse to set the number of router hops allowed.
Restore_Defaults	D	Pulse to restore the default settings for streaming.
Select_Audio/Video_Port	D	Pulse to select the audio or video port to set.
Select_MulticastIP	D	Pulse to select the multicast IP address to set.
Key_*	D	Pulse to enter the selected port or ip address.
Poll	D	Pulse to poll the Polycom for the current streaming settings.
From_Device$	S	Serial signal to be routed from a 2-way serial com port or from the TCP/IP Client.

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Certified Module

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FEEDBACK:

Enable/Disable_Fb	D	High to indicate whether the streaming is enabled or disabled.
Announce_On/Off_Fb	D	High to indicate the current state of the Announce function.
Speed_*_Fb	D	High to indicate which speed was last selected.
Router_Hops_*_Fb	D	High to indicate the number router hops allowed.
Select_Audio/Video_Port_Fb	D	High to indicate which port is currently being entered.
Select_MulticastIP_Fb	D	High to indicate that the Multicast IP address is being entered.
Audio_Port$	S	Serial signal containing the audio port number.
Video_Port$	S	Serial signal containing the video port number.
Multicast_Ip$	S	Serial signal containing the multicast IP address.
Stream_Text$	S	Serial signal containing the text being changed. When one of the Select_* inputs is pulsed, the Audio/Video Port text or the Multicast IP Address text will appear on this output.
To_Device$	S	Serial signal to be routed to a 2-way serial com port or to the TCP/IP Client.

TESTING:

OPS USED FOR TESTING:	PRO2: 3.137 CNMSX: 5.14.02x
COMPILER USED FOR TESTING:	2.05.22
SAMPLE PROGRAM:	Polycom VSX7000 & VSX8000 Demo
REVISION HISTORY:	V. 1.0 – Original release.

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