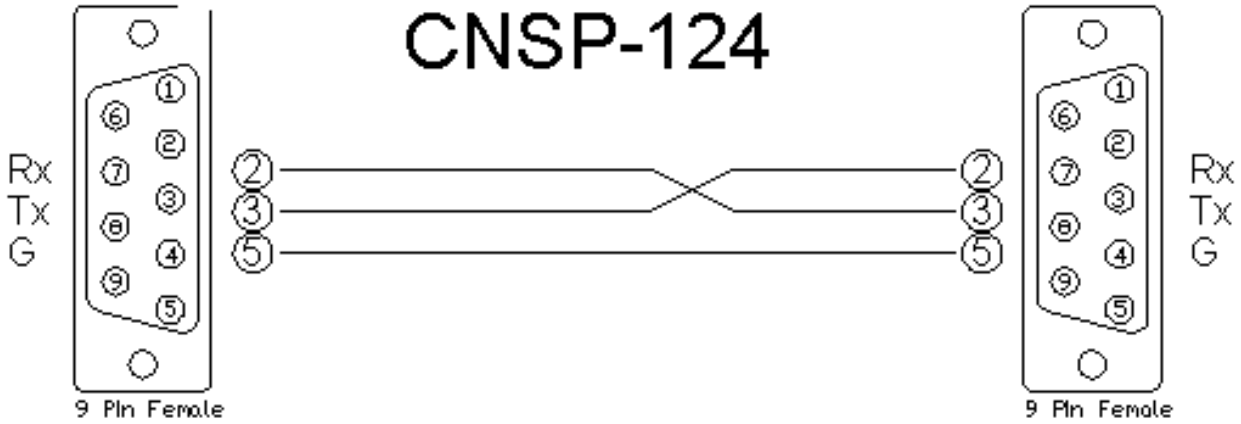


Partner: Hewlett Packard
Model: XP8010
Device Type: Projector



GENERAL INFORMATION

SIMPLWINDOWS NAME:	HP XP8010 Projector
CATEGORY:	Display Device
VERSION:	1.0
SUMMARY:	Power, Source Select, Video Mute, Auto Sync, Contrast, Brightness, Sharpness, Saturation, Tint, Volume, Audio Mute, Aspect Ratio and Elapsed Lamp Hours.
GENERAL NOTES:	<p>This module will control the HP XP8010 Projector. True feedback is provided for all functions. When any command is sent to the projector, it will acknowledge that the command was processed properly and the corresponding feedback will be reflected at the outputs of this module. It is recommended to disable Source Auto Search within the projector's Menu controls. If it is desired to poll the projector for power status, you can assert the Poll_Enable input. When this input is high, the projector will be polled every 10 seconds to determine the state of power only.</p> <p>If it is desired to poll the projector for picture settings, you can assert the Poll_Settings input. When this input is high, and the module's Power_On_FB is high, the projector will be polled every 45 seconds to determine the state of input source, aspect ratio and picture mute, brightness, contrast, sharpness, saturation, tint, volume and elapsed lamp hours. Typically, you could enable either polling option when the projector's particular control page is active and displayed on a touch panel. You would then disable polling at other times.</p>
CRESTRON HARDWARE REQUIRED:	C2-COM, ST-COM, CNMSX Internal Com Ports
SETUP OF CRESTRON HARDWARE:	RS232 Baud Rate: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	2.0
VENDOR SETUP:	Disable Source Auto Select within vendor's menus.
CABLE DIAGRAM:	CNSP-124



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CONTROL:

Power_On	D	Turn screen on.
Power_Off	D	Turn screen off.
Power_Toggle	D	Toggles the power state of the screen.
Mute_On	D	Enables projector audio mute.
Mute_Off	D	Disables projector audio mute.
Mute_Toggle	D	Toggles projector audio mute.
Input_VGA1	D	Select the D-sub #1 input on screen.
Input_VGA2	D	Select the D-sub #2 input on screen.
Input_Video	D	Select the Composite Video input on screen.
Input_S-Video	D	Select the S-Video input on screen.
Input_Component	D	Select the Component input on screen.
Input_RGBHV	D	Select the Computer BNC input on screen.
Input_DVI	D	Select the DVI Analog/Digital inputs on screen.
Picture_Mute_On	D	Activate picture mute (blank the screen).
Picture_Mute_Off	D	Deactivate picture mute (unblank the screen).
Aspect_1to1	D	Selects input signal's native aspect ratio.
Aspect_Best	D	Selects input signal's optimum aspect ratio.
Resize_Fill	D	Resizes input signal to full screen.
Resize_16-9	D	Resizes input signal to 16:9 aspect ratio.
Contrast_Up/Down	D	Adjusts appropriate picture setting up/down.

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CONTROL:

Brightness_Up/Down	D	Adjusts appropriate picture setting up/down.
Sharpness_Up/Down	D	Adjusts appropriate picture setting up/down.
Saturation_Up/Down	D	Adjusts appropriate picture setting up/down.
Tint_Up/Down	D	Adjusts appropriate picture setting up/down.
Volume_Up/Down	D	Adjusts projector's volume setting up/down.
Auto_Sync	D	Adjusts projector's display automatically (Computer only).
Poll_Enable	D	When high, the projector will be polled for power status every 10 seconds.
Poll_Settings	D	When high, the projector will be polled for picture settings and Lamp Hours every 45 seconds.
From_Device\$		S Serial data signal to be routed from a 2 way com port.

FEEDBACK:

Power_On/Off/_FB	D	Real feedback indicating projector's power state.
Mute_On/Off/_FB	D	Real feedback indicating projector's audio mute state.
Input*_FB	D	Real feedback indicating projector's current source.
Picture_Mute_On/Off_FB	D	Real feedback indicating projector's picture mute state.
Aspect*_FB	D	Real feedback indicating projector's current aspect ratio.
*_Bar	A	Picture setting's current level. Route to a TP bar graph.
Lamp_Hours	A	Decimal value of elapsed lamp hours in tenths. (XXXX.X)
To_Device\$	S	Serial data signal to be routed to a 2 way com port.

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**TESTING:**

OPS USED FOR TESTING:	X-GEN SERIES OPS USED FOR TESTING: 5.12.63 2 SERIES OPS USED FOR TESTING: 3.088
SIMPLWINDOWS USED FOR TESTING:	2.04.14
SAMPLE PROGRAM:	HP XP8010 Projector Pro2 Demo
REVISION HISTORY:	None