

Partner: Epson
 Model: EH-R4000
 Device Type: LCD Projector



GENERAL INFORMATION

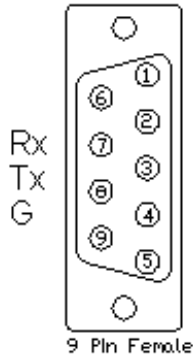
SIMPLWINDOWS NAME:	Epson EH-R4000 v1.1
CATEGORY:	TV/Video Projector
VERSION:	1.1
SUMMARY:	<p>This module will control the Epson EH-R4000. Functions include Power, Source Select, A/V mute, Aspect Ratio, Freeze, Brightness, Contrast, Color, Tint, Sharpness, Volume and display elapsed Lamp Hour usage.</p> <p>This module was tested with the EH-R4000. Epson uses the same protocol on most of their projectors. This module should also work on the following models:</p> <ul style="list-style-type: none"> • Home Cinema EH-R4000 • Home Cinema EH-R5000C • PowerLite Pro Cinema 61000 • EH-R1000 • EH-R2000 • Home Cinema EH-R3000C • PowerLite Home Cinema 21000 • PowerLite Pro Cinema 31000
GENERAL NOTES:	<p>This module will control the Epson EH-R4000 Projector. True feedback is provided for power, input sources, a/v mute, freeze, aspect ratio, color mode and picture settings. 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.</p> <p>If it is desired to poll the projector for power state, you can assert the Poll_Enable input. When this input is high, the projector will be polled every 15 seconds to determine the state of power. If it is desired to poll the projector for picture setting changes made using the IR remote control, or by the controls on the projector itself, you can assert the Poll_Settings input. When this input is high, the projector will be polled every 45 seconds to determine the state of input source, picture mute, freeze, aspect ratio, color mode, brightness, contrast, sharpness, color, 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> <p>NOTE: This module depends on responses from the device. Thus, you cannot comment out the From_Device. This module is SystemBuilder compatible.</p>
CRESTRON HARDWARE REQUIRED:	X-Series Processor, CNX-COM2, ST-COM, 2-Series Processor, C2COM3
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	None
VENDOR SETUP:	None

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CABLE DIAGRAM:

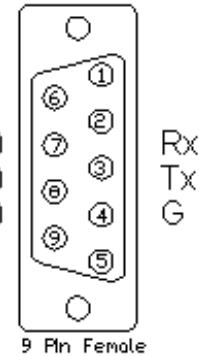
CNSP-124

Rear View of Connector



CNSP-124

Rear View of Connector



CONTROL:

Power_<On/Off/Toggle>	D	Pulse to turn projector on or off.
Input_*	D	Pulse to select the desired source.
A/V_Mute_<On/Off/Toggle>	D	Pulse to turn A/V mute on or off.
Aspect_*	D	Pulse to select desired aspect ratio.
Color_Mode_*	D	Pulse to select desired color mode.
Contrast_<Up/Down>	D	Press to adjust the contrast level.
Brightness_<Up/Down>	D	Press to adjust the brightness level.
Color_<Up/Down>	D	Press to adjust the color level.
Tint_<Up/Down>	D	Press to adjust the tint level.
Sharpness_<Up/Down>	D	Press to adjust the sharpness level.
Zoom_<In/Out>	D	Press to adjust the lens zoom.
Focus_<In/Out>	D	Press to adjust the lens focus.
Lens_Shift_<Up/Down/Left/Right>	D	Press to adjust the lens shift.
Poll_Enable	D	Latch high to enable polling for power status.
Poll_Settings	D	Latch high to enable polling for remaining settings.

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From_Device	S	Serial signal to be routed from an RS-232C port.
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FEEDBACK:

Power_Is_<On/Off>	D	True feedback indicating current power state.
Input_Is_*	D	True feedback indicating current selected input source.
A/V_Mute_Is_<On/Off>	D	True feedback indicating current A/V mute state.
Aspect_Is_*	D	True feedback indicating current aspect ratio.
Color_Mode_Is_*	D	True feedback indicating current color mode setting.
Contrast_Gauge	A	Analog value indicating current contrast level. For gauge on touchpanel
Brightness_Gauge	A	Analog value indicating current brightness level. For gauge on touchpanel.
Color_Gauge	A	Analog value indicating current color level. For gauge on touchpanel.
Tint_Gauge	A	Analog value indicating current tint level. For gauge on touchpanel.
Sharpness_Gauge	A	Analog value indicating current sharpness level. For gauge on touchpanel.
Lamp_Hours	A	Analog value indicating current lamp hours. For digital gauge on touchpanel.
To_Device	S	Serial data signal to be routed to a 2 way com port.

TESTING:

OPS USED FOR TESTING:	4.001.1012
SIMPL WINDOWS USED FOR TESTING:	2.12.44
CRES DB USED FOR TESTING:	22.05.013.00
DEVICE DB USED FOR TESTING:	30.00.011.00
SYMBOL LIBRARY USED FOR TESTING:	679
SAMPLE PROGRAM:	Epson EH-R4000 v1.1 Demo PRO2
REVISION HISTORY:	v1.0 – Original release v1.1 – Update help file and module header information to include additional projector models that can be controlled using this module.