

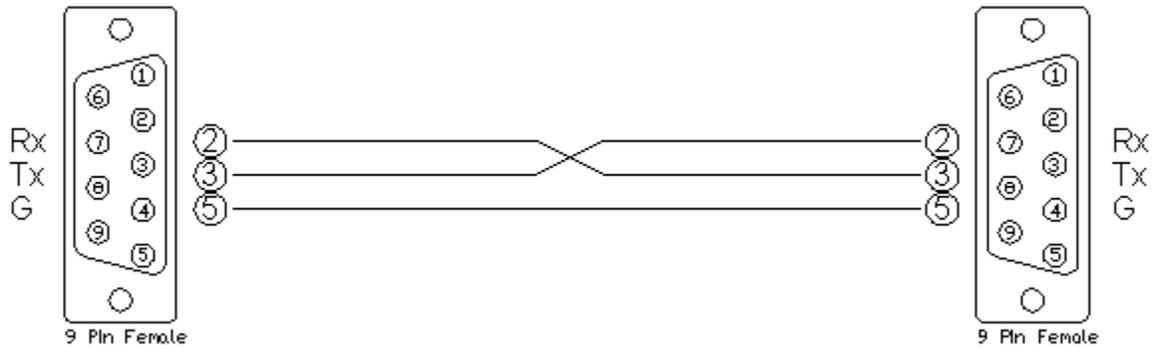
Partner: InFocus
Model: LP640 + 540 LCD Projector
Device Type: Display



GENERAL INFORMATION

SIMPLWINDOWS NAME:	InFocus LP640 + 540 Projector.umc
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module will control the InFocus LP640 and LP540 Projectors.
GENERAL NOTES:	<p>This module will control the following functions of the InFocus LP640 and LP540 Projectors: Power, Source Select, Aspect Ratio, Picture Mute, Lamp Low Power Mode, Presets, Menu control and navigation, Contrast, Brightness, Color, Tint, Sharpness, Volume, Audio Mute, and the acquisition of elapsed lamp hour usage. True feedback is provided for most functions. When any command is sent to the projector, the module will acknowledge that the command was processed and the corresponding feedback will be reflected at the outputs of this module.</p> <p>When the Poll_Enable input is asserted (Default =1), 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 (Default =1). When this input is high, the projector will be polled every 45 seconds to determine the state of input source, picture mute, aspect ratio, lamp mode, brightness, contrast, sharpness, color, tint, volume, audio mute and elapsed lamp hours. Typically, you could enable this 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 feedback from the device. You cannot comment out the FROM_DEVICE\$ serial input. This serial signal must be used for proper module operation. Auto source selection must be disabled for proper module operation. In some instances, a slight delay in module feedback may be experienced.</p>
CRESTRON HARDWARE REQUIRED:	CNCOMH-2, CNXCOM-2, ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 19200 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	Disable Auto Source Select
CABLE DIAGRAM:	CNSP-124

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CONTROL:

Power_*	D	Pulse to change device's current power state
Input_*	D	Pulse to select device's current input source
Picture_Mute_On/Off/Toggle	D	Pulse to enable/disable picture mute
Aspect_Ratio_*	D	Pulse to select device's current screen aspect ratio
Preset_*	D	Pulse to select device's settings preset
Menu_*	D	Pulse to enable and select device's menu and navigation
Brightness_Up/Down	D	Assert to increase/decrease device's current picture setting level
Contrast_Up/Down	D	Assert to increase/decrease device's current picture setting level
Color_Up/Down	D	Assert to increase/decrease device's current picture setting level
Tint_Up/Down	D	Assert to increase/decrease device's current picture setting level
Sharpness_Up/Down	D	Assert to increase/decrease device's current picture setting level
Volume_Up/Down	D	Assert to increase/decrease device's current volume level
Poll_Enable	D	When High, Device is polled for power status
Poll_Settings	D	When high, device is polled for all picture settings and lamp hours
Audio_Mute_*	D	Pulse to activate/deactivate audio mute
From_Device\$	S	Serial data signal coming from a 2-way RS232 port.

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FEEDBACK:

Power*_FB	D	True feedback indicating device's current power state
Input*_FB	D	True feedback indicating device's current input source
Picture_Mute*_FB	D	True feedback indicating device's current picture mute state
Aspect_Ratio*_FB	D	True feedback indicating device's current screen size
Preset*_FB	D	True feedback indicating device's current preset
Audio_Mute*_FB	D	True feedback indicating device's current audio mute state
Volume_Bar	A	Analog value of device's current volume level to be sent to a bar graph
Contrast_Bar	A	Analog value of device's current contrast level to be sent to a bar graph
Brightness_Bar	A	Analog value of device's current brightness level to be sent to a bar graph
Color_Bar	A	Analog value of device's current color level to be sent to a bar graph
Tint_Bar	A	Analog value of device's current tint level to be sent to a bar graph
Sharpness_Bar	A	Analog value of device's current sharpness level to be sent to a bar graph
Lamp*_Hours	A	Decimal value of device's current elapsed lamp hour usage for both lamps
Menu_On/Off_Fb	D	True feedback indicating the device's current menu state
To_Device\$	S	Serial data signal to be sent to a 2-way RS232 port.

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**TESTING:**

OPS USED FOR TESTING:	PRO2 Cntrl Eng [v3.177 (Release)]
COMPILER USED FOR TESTING:	2.00.31
SAMPLE PROGRAM:	InFocus LP640 + 540 Projector Demo Pro2.smw
REVISION HISTORY:	V. 1.0