Partner: Planar
Model: Simplicity Series SLxx64K
Device Type: LCD Display

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	Planar Simplicity Series SLxx64K RS232 v1.1
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module controls RS232 communication with the Planar Simplicity Series SLxx64K displays. Applicable models: SL4364K, SL5064K, SL5564K, SL6564K, SL7564K, SL8664K
GENERAL NOTES:	This module is intended to control a single monitor. Video wall functionality is not implemented at this time. In order to ensure the module works correctly, Eco Mode must be set to "Normal" using the displays on-screen menu. It has been noted that the display does not respond to commands that are sent too fast. In order to operate properly, it has been found that commands need to be sent no quicker than every 2.5 seconds. As such, a delay between commands has been implemented. This delay is most noticeable during ramping operations. It is recommended to use a direct touch-settable bargraph in this case where the value is set upon release of the bargraph. This will minimize the effect of the delay. The example program implements this functionality for reference.
CRESTRON HARDWARE REQUIRED:	Crestron 2-Series* or 3-Series processor. *this module is set up to work with a 2-Series processor but has not been tested with one as of this writing.
SETUP OF CRESTRON HARDWARE:	RS232: Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1 Flow Control: None
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A

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PARAMETER:	
Monitor_ID	Setting to indicate the Monitor ID that has been set for the device.
Volume_Step_Size	Setting to indicate the single step amount to increment/decrement the volume.

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CONTROL:

Connect	D	Pulse to establish communication with the monitor.
Disconnect	D	Pulse to break communication with the monitor.
Reinitialize	D	Pulse to re-establish communication with the monitor. Pulsing this signal is the equivalent of pulsing Disconnect followed by Connect.
Power_On	D	Pulse to turn on the monitor.
Power_Off	D	Pulse to turn off the monitor.
Power_Toggle	D	Pulse to toggle the power status of the monitor.
Input_[x]	D	Pulse to switch to current input on the monitor to [x].
Input_Cycle	D	Pulse to cycle to the next input of the monitor.
Volume_Up	D	Pulse to raise the volume of the monitor by 1 step. Hold to raise the volume of the monitor in 1 step increments until released.
Volume_Down	D	Pulse to lower the volume of the monitor by 1 step. Hold to lower the volume of the monitor in 1 step increments until released.
Volume_Set	A	Set the volume level of the monitor.
Volume_Mute_On	D	Pulse to mute the volume of the monitor.
Volume_Mute_Off	D	Pulse to unmute the volume of the monitor.
Volume_Mute_Toggle	D	Pulse to toggle the volume mute status of the monitor.
Poll_Enable	D	Latch high to enable polling the monitor for the status of all relevant attributes. Unlatch to turn off polling. Note: the monitor does not provide unsolicited feedback. Enabling polling is highly recommended for accurate and up-to-date feedback.
From_Device	S	Serial signal to be routed from a 2-way COM port.

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FEEDBACK:

Is_Communicating	D	High to indicate that communication has been established with the device. Once communication has been established, the module will attempt to initialize automatically.
Is_Initialized	D	High to indicate that the module's internal state variables are now synced with the device's current state. *Note: Outgoing commands will not be sent to the monitor until the module is initialized. However, heartbeat commands will continue to be sent.*
Power_Is_On	D	High to indicate the monitor is currently on.
Input_Is_[X]	D	High to indicate the current input of the monitor is set to [X].
Volume_Level	A	Value indicating the current volume level of the monitor.
Volume_Is_Muted	D	High to indicate the volume of the monitor is currently muted.
Polling_Is_Enabled	D	High to indicate the module is currently set to poll for device status.
To_Device	S	Serial signal to be routed to a 2-way COM port.

TESTING:

OPS USED FOR TESTING:	RMC3: 1.011.0023
SIMPL WINDOWS USED FOR TESTING:	4.03.14.01
CRES DB USED FOR TESTING:	52.05.013.00
DEVICE DATABASE:	67.00.001.00
SYMBOL LIBRARY USED FOR TESTING:	956
SAMPLE PROGRAM:	Planar Simplicity Series SLxx64K v1.1 Demo RS232 RMC3
REVISION HISTORY:	v1.0 – Initial Release v1.1 – Fixed communication bug and removed message wait timer

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