

Partner: Planar
Model: Simplicity Series 4k
Device Type: LCD Display



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Planar Simplicity Series 4k IP v1.1
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module controls IP communication with the Planar Simplicity Series 4k displays.
GENERAL NOTES:	<p>This module is intended to control a single monitor. Video wall functionality is not implemented at this time.</p> <p>In order to ensure the module works correctly, Eco Mode must be set to "Normal" using the displays on-screen menu.</p> <p>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.</p>
CRESTRON HARDWARE REQUIRED:	Crestron 2-Series* or 3-Series processor. <i>*this module is set up to work with a 2-Series processor but has not been tested with one as of this writing.</i>
SETUP OF CRESTRON HARDWARE:	TCP/IP: Port: 5000
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:

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. <i>Note: the monitor does not provide unsolicited feedback. Enabling polling is highly recommended for accurate and up-to-date feedback.</i>
{{TCP/IP_Client_>>_Connect-F}}	D	Digital signal to be routed from the TCP/IP client symbols Connect-F signal.
{{TCP/IP_Client_>>_status}}	A	Analog signal to be routed from the TCP/IP client symbols status signal.
{{TCP/IP_Client_>>_RX\$}}	S	Serial signal to be routed from the TCP/IP client symbols RX\$ signal.

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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. <i>Note: Outgoing commands will not be sent to the monitor until the module is initialized. However, heartbeat commands will continue to be sent.</i>
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.
Connect-F	D	High to indicate the TCP/IP client is connected. This signal is effectively a mirror of the Connect-F signal on the TCP/IP client. It is recommended that this signal be commented out in your program.
status	A	Value indicating the TCP/IP client connection status. This signal is effectively a mirror of the status signal on the TCP/IP client. It is recommended that this signal be commented out in your program.
{{Connect_>>_TCP/IP_Client}}	D	High to indicate the module is ready to connect to the device. This signal should be routed to the TCP/IP Client symbols Connect signal.
{{TX\$_>>_TCP/IP_Client}}	S	Serial signal to be routed to the TCP/IP client symbols TX\$ signal.

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**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 4k v1.0 Demo IP RMC3
REVISION HISTORY:	v1.0 – Initial Release v1.1 – Fixed communication bug and removed message wait timer