

Partner: Planar
Model: UltraRes Series Gen2
Device Type: LCD Display



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Planar UltraRes Series Gen2 RS232 v1.0
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module controls RS232 communication with the Planar UltraRes Series Gen2 monitors.
GENERAL NOTES:	<p>The monitor does not respond to any commands or queries (other than power) if turned off. The monitor must be powered on in order for the module to initialize and in order for any commands other than power on to function.</p> <p>Once the monitor is powered on, the module will attempt to initialize. This process may take up to 30 seconds. Once powered on and fully initialized, the full control functions of the module will be available for use.</p>
CRESTRON HARDWARE REQUIRED:	<p>Crestron 2-Series* or 3-Series processor.</p> <p><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></p>
SETUP OF CRESTRON HARDWARE:	<p>RS232:</p> <p>Baud: 19200</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p> <p>Flow Control: None</p>
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A

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**PARAMETER:**

Volume_Step_Size	Setting to indicate the single step amount to increment/decrement the volume.
Backlight_Step_Size	Setting to indicate the single step amount to increment/decrement the backlight.

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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.
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. The volume will be raised by the amount assigned to the parameter "Volume_Step_Size".
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. The volume will be lowered by the amount assigned to the parameter "Volume_Step_Size".
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.
Backlight_Up	D	Pulse to raise the backlight of the monitor by 1 step. Hold to raise the backlight of the monitor in 1 step increments until released. The backlight will be raised by the amount assigned to the parameter "Backlight_Step_Size".
Backlight_Down	D	Pulse to lower the backlight of the monitor by 1 step. Hold to lower the backlight of the monitor in 1 step increments until released. The backlight will be lowered by the amount assigned to the parameter "Backlight_Step_Size".
Backlight_Set	A	Set the backlight level of the monitor.
Message_Box_On	D	Pulse to enable the message box of the monitor.
Message_Box_Off	D	Pulse to disable the message box of the monitor.
Message_Box_Toggle	D	Pulse to toggle the message box status of the monitor.

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CONTROL *continued:*

Video_Input_[X]	D	Pulse to switch the current video input on the monitor to [X].
Video_Input_Cycle	D	Pulse to cycle to the next video input of the monitor.
Audio_Input_[X]	D	Pulse to switch the current audio input on the monitor to [X].
MultiSource_View_[X]	D	Pulse to set the monitor Multi-Source View to [X].
MultiSource_View_Cycle	D	Pulse to cycle to the next Multi-Source View of the monitor.
MultiSource_Zone_2_[X]**	D	Pulse to switch the Multi-Source Zone #2 input on the monitor to [X].
MultiSource_Zone_2_Cycle	D	Pulse to cycle Multi-Source Zone #2 input of the monitor.
MultiSource_Zone_3_[X]**	D	Pulse to switch the Multi-Source Zone #3 input on the monitor to [X].
MultiSource_Zone_3_Cycle	D	Pulse to cycle Multi-Source Zone #3 input of the monitor.
MultiSource_Zone_4_[X]**	D	Pulse to switch the Multi-Source Zone #4 input on the monitor to [X].
MultiSource_Zone_4_Cycle	D	Pulse to cycle Multi-Source Zone #4 input of the monitor.
Power_Save_Mode_[X]	D	Pulse to set the current power save mode on the monitor to [X].
Power_Save_Mode_Cycle	D	Pulse to cycle to the next power save mode on the monitor.
Preset_Save	A	Save a preset on the monitor. The monitor supports up to 1000 presets.
Preset_Recall	A	Recall a preset on the monitor. The monitor supports up to 1000 presets.
IR_[X]	D	Pulse to send an IR emulation command to the monitor for [X].
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>
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 once the monitor is powered on.
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 (other than power) 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.
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.
Backlight_Level	A	Value indicating the current backlight level of the monitor.
Message_Box_Is_On	D	High to indicate the message box feature of the monitor is currently enabled.
Video_Input_Is_[X]	D	High to indicate the current video input of the monitor is set to [X].
Audio_Input_Is_[X]	D	High to indicate the current audio input of the monitor is set to [X].
MultiSource_View_Is_[X]	D	High to indicate the current Multi-Source View of the monitor is set to [X].
MultiSource_Zone_2_Is_[X]	D	High to indicate the Multi-Source Zone #2 input of the monitor is set to [X].
MultiSource_Zone_3_Is_[X]	D	High to indicate the Multi-Source Zone #3 input of the monitor is set to [X].
MultiSource_Zone_4_Is_[X]	D	High to indicate the Multi-Source Zone #4 input of the monitor is set to [X].
Power_Save_Mode_Is_[X]	D	High to indicate the current Power Save Mode of the monitor is set to [X].
Last_Preset_Save	A	Value indicating the last preset that was saved on the monitor.
Last_Preset_Recalled	A	Value indicating the last preset that was recalled on the monitor.
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.

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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 UltraRes Series Gen2 Demo RS232 RMC3
REVISION HISTORY:	v1.0 – Initial Release