

**Partner: Samsung**  
**Model: PPM42M5H/S + 50/63M5H**  
**Device Type: Plasma Display**



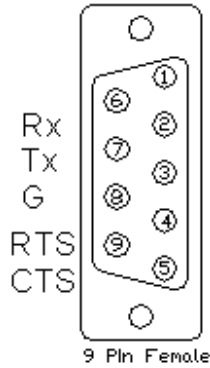
## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Samsung PPM42M5S + 42M5H + 50M5H + 63M5H Plasma
<b>CATEGORY:</b>	TV/Video Projector
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module will control the following functions of the Samsung PPM42M5S, PPM42M5H, PPM50M5H & PPM63M5H Plasma display monitors: Power, Source Select, PIP, Aspect Ratio, Audio Mute, RGB Auto setup, Brightness, Contrast, Color, Tint, Sharpness and Volume.
<b>GENERAL NOTES:</b>	<p>This module will control the following functions of the Samsung PPM42M5S, PPM42M5H, PPM50M5H &amp; PPM63M5H Plasma display monitors: Power, Source Select, PIP, Aspect Ratio, Audio Mute, RGB Auto setup, Brightness, Contrast, Color, Tint, Sharpness and Volume. When a command is sent to the plasma, it will acknowledge that the command was processed properly and the corresponding feedback will be reflected at the outputs of this module.</p> <p>When the Poll_Enable input is asserted, the plasma will be polled every 15 seconds to determine the state of power. If it is desired to poll the plasma for any setting changes made using the IR remote control, or by the controls on the plasma itself, you can assert the Poll_Settings input. When this input is high, the plasma will be polled every 45 seconds to determine the state of input source, picture mute, aspect ratio, PIP, brightness, contrast, sharpness, color, tint and volume. Typically, you could enable either polling option when the plasma's particular control page is active and displayed on a touch panel. You would then disable polling at other times.</p> <p>Device ID must be selected from the drop down list. The value will fill when an address is elected. The value may not be the same as the address since the values are hex and the addresses are decimal. Also, address 00 will have a value of FF as per Samsung's protocol. To control all plasmas connected in a daisy chain, use the All IDs entry, however, it will not provide feedback.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	C2-COM, ST-COM, CNMSX Internal Com Ports
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 19200 Parity: None Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	NONE
<b>CABLE DIAGRAM:</b>	CNSP-532

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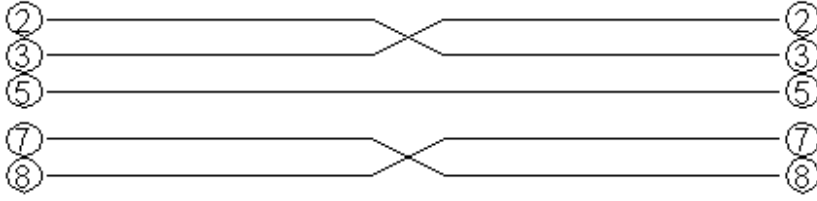
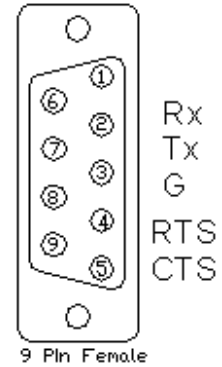


Rear View of Connector



# CNSP-532

Rear View of Connector



## CONTROL:

<b>Power_*</b>	D	Pulse to change device's power state
<b>Input_*</b>	D	Pulse to change device's input source
<b>Aspect_*</b>	D	Pulse to select desired aspect ratio
<b>Auto_Adjust</b>	D	Pulse to enable auto picture adjust for RGB inputs
<b>*_Up/Down</b>	D	Assert to increase/decrease device's current picture/volume level
<b>Audio_Mute_On/Off</b>	D	Pulse to enable/ disable audio mute
<b>PIP_*</b>	D	Pulse to enable/disable picture in picture
<b>PIP_Input_*</b>	D	Pulse to select the desired input for the PIP window
<b>PIP_Swap</b>	D	Pulse to select PIP swap
<b>PIP_Size_*</b>	D	Pulse to set the size of the PIP window
<b>PIP_Position_*</b>	D	Pulse to move the PIP window to the desired position
<b>Poll_Enable</b>	D	When high, device is polled every 15 seconds for power status
<b>Poll_Settings</b>	D	When high, device is polled every 45 seconds for general/picture settings
<b>From_Device\$</b>	S	Serial signal from a 2-way com port

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**PARAMETERS:**

<b>ADDRESS</b>	P	Device ID. Select from the dropdown list. All IDs will control all plasmas screens connected in a daisy chain, however, it will not provide feedback.
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**FEEDBACK:**

<b>Power*_FB</b>	D	True feedback indicating device's current power status
<b>Input*_FB</b>	D	True feedback indicating device's current input source
<b>Aspect*_FB</b>	D	True feedback indicating device's current picture aspect ratio
<b>*_Bar</b>	A	Analog value of device's current picture/volume level to be sent to a bar graph
<b>Audio_Mute_On/Off_FB</b>	D	True feedback indicating device's current audio mute state
<b>PIP_On/Off_FB</b>	D	True feedback indicating device's current picture-in-picture state
<b>PIP_Input*_Fb</b>	D	True feedback indicating device's current picture-in-picture input source.
<b>PIP_Size*_Fb</b>	D	True feedback indicating device's current picture-in-picture size
<b>PIP_Position*_Fb</b>	D	True feedback indicating device's current picture-in-picture position
<b>To_Device\$</b>	S	Serial signal to be sent to a 2-way Com Port

**TESTING:**

<b>OPS USED FOR TESTING:</b>	PRO2: 3.137 CNMSX-Pro: 5.14.02x
<b>COMPILER USED FOR TESTING:</b>	2.05.22
<b>SAMPLE PROGRAM:</b>	Samsung PPM42M5S + 42M5H + 50M5H + 63M5H Plasma Demo
<b>REVISION HISTORY:</b>	V. 1.0