

**Partner: Canon**  
**Model: SX7**  
**Device Type: Video Projector**



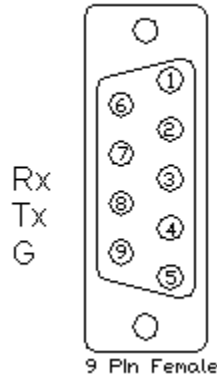
## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Canon SX7 v1.1
<b>CATEGORY:</b>	Video/Data Projector
<b>VERSION:</b>	1.1
<b>SUMMARY:</b>	This module provides control and feedback for the Canon SX7.
<b>GENERAL NOTES:</b>	<p>This module provides control for the Canon SX7. It also provides true feedback. The RS232_Remote_Mode input must be pulsed once to start two-way communications with the projector. Remote_Mode or Local_Mode may be chosen for control. Remote_Mode provides two-way communication with feedback, while Local_Mode provides emulation of the IR remote functions.</p> <p>The Communicating_Fb output will be high to indicate that the projector is communicating with the Crestron processor. This REQUIRES that Poll_Enable be used.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	C21-COM6, C2-COM2/3, CNXCOM-6, CNX-COM2, ST-COM
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 19200 Parity: None Data Bits: 8 Stop Bits: 2
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	None
<b>CABLE DIAGRAM:</b>	CNSP-543

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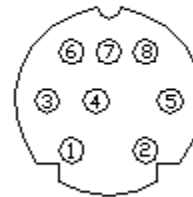
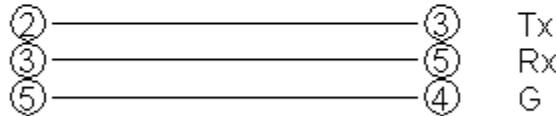


Rear View of Connector



9 Pin Female

# CNSP-543


 Pin View of Connector  
 8 Pin Mini-Din

## CONTROL:

<b>Power_On/Off/Toggle</b>	D	Pulse to turn the projector on and off.
<b>Input_*</b>	D	Pulse to select the input.
<b>Aspect_Ratio_*</b>	D	Pulse to select the aspect ratio.
<b>Image_*</b>	D	Pulse to select the image.
<b>Lamp_Mode_*</b>	D	Pulse to select the lamp mode.
<b>Brightness_Up/Down</b>	D	Press and hold to adjust the brightness.
<b>Sharpness_Up/Down</b>	D	Press and hold to adjust the sharpness.
<b>Contrast_Up/Down</b>	D	Press and hold to adjust the contrast.
<b>Saturation_Up/Down</b>	D	Press and hold to adjust the saturation.
<b>Hue_Up/Down</b>	D	Press and hold to adjust the hue.
<b>Volume_Up/Down</b>	D	Press and hold to adjust the volume.
<b>Volume_Mute_On/Off/Toggle</b>	D	Pulse to turn the volume mute on and off.
<b>Get_Lamp_Hours</b>	D	Pulse to get the lamp hours. This is not necessary if the Poll_Enable is held high.
<b>Blank_On/Off</b>	D	Pulse to turn blank mode on and off.

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Auto_PC	D	Pulse to turn Auto PC mode on and off.
IR_Power	D	Pulse to turn the projector on and off.
IR_Auto_Set	D	Pulse to start the auto set function.
IR_Image	D	Pulse to activate the image function.
IR_Input	D	Pulse to cycle through the inputs.
IR_Auto_PC	D	Pulse to auto sync the PC input.
IR_Focus	D	Pulse to select the focus function.
IR_Zoom	D	Pulse to select the zoom function.
IR_Up/Down/Left/Right	D	Pulse to move through the menus.
IR_Ok	D	Pulse to select an item in the menus.
IR_Keystone	D	Pulse to activate the keystone function.
IR_Menu	D	Pulse to turn the menu on and off.
IR_Spot	D	Pulse to activate the Spot function.
IR_R-Click	D	Pulse to activate the right click function.
IR_Page_Up/Down	D	Pulse to page up or down.
IR_D-Zoom_Up/Down	D	Pulse to adjust the digital zoom.
IR_No_Show	D	Pulse to turn the picture mute on and off.
IR_Mute	D	Pulse to turn the volume mute on and off.
IR_Volume	D	Pulse to select the volume function.
IR_Freeze	D	Pulse to turn the freeze function on and off.
IR_P-Timer	D	Pulse to activate the P-Timer function.
RS232_Remote_Mode	D	Pulse to enable this module to control the projector in remote mode (No IR_* functions).

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<b>RS232_Local_Mode</b>	D	Pulse to enable this module to control the projector in local mode (IR_* functions only).
<b>Poll_Enable</b>	D	Hold high to enable polling (For use when in RS232_Remote_Mode).
<b>From_Device\$</b>	S	Serial signal to be routed from a 2-way serial com port.

### FEEDBACK:

<b>Power_On/Off_Fb</b>	D	High to indicate the current power state.
<b>Cooling_Down/Warming_Up_Fb</b>	D	High to indicate that the projector is cooling down or warming up.
<b>Input_*_Fb</b>	D	High to indicate the currently selected input.
<b>Aspect_Ratio_*_Fb</b>	D	High to indicate the currently selected aspect ratio.
<b>Image_*_Fb</b>	D	High to indicate the currently selected image.
<b>Lamp_Mode_*_Fb</b>	D	High to indicate the current lamp mode.
<b>*_Bar</b>	A	Analog signal indicating the current level for the picture quality and volume. To be displayed using a bar graph on a touch panel.
<b>Volume_Mute_On/Off_Fb</b>	D	High to indicate the current volume mute state.
<b>Communicating_Fb</b>	D	High to indicate that the projector is communicating with the Crestron processor. This requires Poll_Enable to be high. When this signal goes low, the projector did not respond to the last command sent.
<b>Lamp_Hours</b>	A	Analog value indicating the approximate lamp hours. This is NOT actual lamp hours. The feedback we get from the projector indicates ranges. The value here is the high end of the range.
<b>Lamp_Steps</b>	A	Analog value indicating the lamp status by a number of steps. There are 8 steps total. The ranges are 0-199, 200-399, 400-599, 600-799, 800-999, 1000-1199, 1200-1399, and 1400.
<b>Blank_On/Off_Fb</b>	D	High to indicate blank mode currently being on or off.
<b>RS232_Remote_Mode_Fb</b>	D	High to indicate module is being used in remote mode.
<b>RS232_Local_Mode_Fb</b>	D	High to indicate module is being used in local mode.
<b>To_Device\$</b>	S	Serial signal to be routed to a 2-way serial com port.

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	3.155.1240
<b>SIMPL WINDOWS USED FOR TESTING:</b>	2.08.44
<b>CRES DB USED FOR TESTING:</b>	18.09.02.001
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	531
<b>SAMPLE PROGRAM:</b>	Canon SX7 v1.1 Demo
<b>REVISION HISTORY:</b>	V. 1.1 – Original release.