# CRESTRON

## Certified Module

**Partner: Yamaha**
**Model: RX-V1700 & RX-V2700**
**Device Type: Receiver**

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## GENERAL INFORMATION

| | |
|---|---|
| **SIMPLWINDOWS NAME:** | Yamaha RX-V1700 & RX-V2700 Receiver v2 |
| **CATEGORY:** | Receiver/Processor |
| **VERSION:** | 2.0 |
| **SUMMARY:** | Controls the RX-V1700 & RX-V2700 receivers and provides true feedback. |
| **GENERAL NOTES:** | This module controls the Yamaha RX-V1700 & RX-V2700 receivers. It provides true feedback. All standard run time functions are included. NOTE: NOT ALL FUNCTIONS ARE AVAILABLE FOR BOTH MODELS. |
| **CRESTRON HARDWARE REQUIRED:** | C2-COM, ST-COM |
| **SETUP OF CRESTRON HARDWARE:** | RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1 RTS/CTS |
| **VENDOR FIRMWARE:** | None |
| **VENDOR SETUP:** | None |
| **CABLE DIAGRAM:** | CNSP-532 |

Rear View of Connector
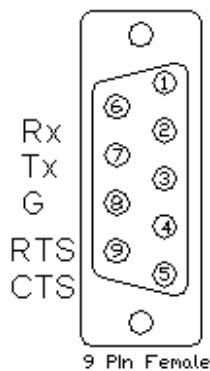
## CNSP-532

Rear View of Connector

Rx 2
Tx 3
G 5
RTS 7
CTS 8

Rx 2
Tx 3
G 5
RTS 7
CTS 8

9 Pin Female

9 Pin Female
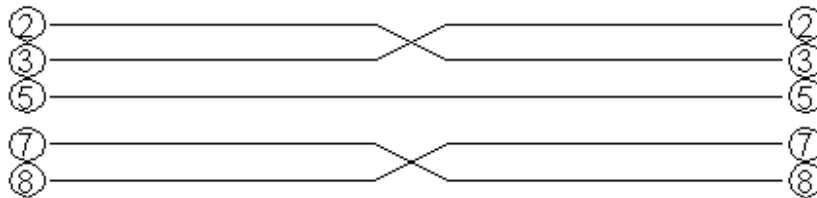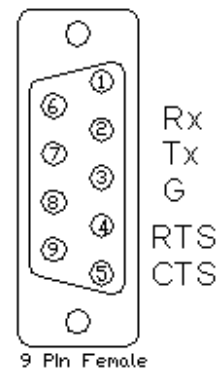
## CONTROL:

| | | |
|---|---|---|
| **Master_Power_On/Off** | D | Pulse to turn all zones on or off. |
| **Main_Zone_Power_On/Off/Toggle** | D | Pulse to turn the main zone power on and off. |
| **Main_Zone_Volume_Up/Down** | D | Press and hold to adjust the main zone volume. |
| **Main_Zone_Volume_Mute_On/Off/Toggle** | D | Pulse to turn the main zone volume mute on and off. |
| **Input_*** | D | Pulse to select the main zone input. |
| **Tuner_Page_*** | D | Pulse to select the tuner preset page. |
| **Tuner_Preset_*** | D | Pulse to select the tuner preset on the selected tuner preset page. |
| **Tuner_Auto_Up/Down** | D | Pulse to turn the tuner's auto function on. |
| **Tuner_AM/FM** | D | Pulse to select the AM or FM band. |
| **Effect_On/Off** | D | Pulse to turn the surround sound effects on and off. |
| **Effect_*** | D | Pulse to select the desired surround sound effect. |
| **Multi_Chan_Input_On/Off/Toggle** | D | Pulse to turn the multi channel input on and off. |
| **Input_Mode_*** | D | Pulse to select the input mode. |
| **Speaker_*_On/Off/Toggle** | D | Pulse to turn the A or B speakers on and off. |
| **Zone_*_Power_On/Off/Toggle** | D | Pulse to turn the zone 2 or 3 power on and off. |
| **Zone_*_Volume_Up/Down** | D | Press and hold to adjust the zone 2 or 3 volume. |
| **Zone_*_Volume_Mute_On/Off/Toggle** | D | Pulse to turn the zone 2 or 3 volume mute on and off. |
| **Zone_*_Input_*** | D | Pulse to select the zone 2 or 3 input. |
| **Preset_*_Mem_*** | D | Pulse to store the current volume level in a preset for the desired zone. |
| **Preset_*_Rec_*** | D | Pulse to recall the desired volume preset for the desired zone. |

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| XM_Channel/Preset_Key_* | D | Pulse to enter the channel number or preset number. Preset numbers are 1 to 8. |
|---|---|---|
| XM_Enter | D | Pulse to switch to the entered channel number or preset number. |
| XM_Channel/Preset_Up/Down | D | Pulse to step through the channels or presets. |
| XM_Category/Preset_Page_Up/Down | D | Pulse to step through the categories or the preset pages. |
| XM_Preset_Memory | D | Pulse to activate the XM preset memory function. |
| XM_Search_Mode_* | D | Pulse to select the desired XM search mode. |
| XM_Preset_Page_* | D | Pulse to select the desired preset page. |
| IPod_* | D | Pulse to control the iPod. To see the iPod information on the Crestron system, you must pulse the iPod_Display input. |
| Net/USB_* | D | Pulse to control the Net/USB. To see the Net/USB information on the Crestron system, you must pulse the Net/USB_Display input. |
| Poll | D | Pulse to poll the receiver for its current status. This should only be required once. The module will automatically get the status when a command is sent. |
| From_Device$ | S | Serial signal to be routed from a 2-way serial com port. |

## FEEDBACK:

| Main_Zone_Power_On/Off_FB | D | High to indicate the main zone's current power status. |
|---|---|---|
| Main_Zone_Volume_Bar | A | Analog value indicating the main zone's current volume level. To be displayed using a bar graph on a touch panel. |
| Main_Zone_Volume_Mute_On/Off_FB | D | High to indicate the main zone's current volume mute state. |
| Input_*_FB | D | High to indicate the main zone's current input. |
| Tuner_Page_*_FB | D | High to indicate the currently selected tuner preset page. |
| Tuner_Preset_*_FB | D | High to indicate the currently selected tuner preset. |
| Tuner_AM/FM_FB | D | High to indicate the tuner's current band. |
| Effect_On/Off_FB | D | High to indicate whether the surround effects are on or off. |

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|---|---|---|
| **Effect_*_FB** | D | High to indicate the currently selected surround effect. |
| **Multi_Chan_On/Off_FB** | D | High to indicate whether the multi channel input is on or off. |
| **Input_Mode_*_FB** | D | High to indicate the currently selected input mode. |
| **Speaker_*_On/Off_FB** | D | High to indicate the current speaker A & B state. |
| **Zone_*_Power_On/Off_FB** | D | High to indicate the current power state for the zones 2 and 3. |
| **Zone_*_Volume_Bar** | A | Analog signal indicating the current volume level for zones 2 and 3. |
| **Zone_*_Input*_FB** | D | High to indicate the currently selected input for zones 2 and 3. |
| **Preset_*_Mem_*_FB** | D | High to indicate the last preset that was stored for the zone. |
| **Preset_*_Recall_*_FB** | D | High to indicate the last preset that was recalled for the zone. |
| **Frequency_Text$** | S | Serial signal indicating the current tuner frequency and band. |
| **\*_Input_Text$** | S | Serial signal indicating the name of the currently selected input for each zone. |
| **\*_Volume_Text$** | S | Serial signal indicating the current volume level, in dB, for each zone. |
| **Effects_Text$** | S | Serial signal indicating the name of the current surround effect. |
| **Input_Mode_Text$** | S | Serial signal indicating the name of the current input mode. |
| **XM_Channel_Number** | A | Analog value representing the XM Channel number. To be displayed using a digital gauge on a touch panel. |
| **XM_Preset_*_Fb** | D | High to indicate the currently selected XM preset number. |
| **XM_*$** | S | Serial signal indicating the current XM Channel information. This will only be displayed when the XM is selected as the source for the main zone. |
| **XM_Search_Mode_*_Fb** | D | High to indicate the currently selected search mode. |
| **XM_Preset_Page_*_Fb** | D | High to indicate the currently selected preset page. |
| **IPod_*$** | S | Serial signal indicating the current iPod information. This will only be displayed when the iPod Dock is selected as the source for the main zone. |
| **IPod_Highlighted_Line_FB** | A | Analog value indicating the currently highlighted line of text in the iPod list. |

| | | |
|---|---|---|
| **IPod_List_Line_*_Text$** | S | Serial signal indicating the current menu list. This will only be displayed when the iPod is selected as the source for the main zone. |
| **Net/USB_Source_*_FB** | D | High to indicate the current Net/USB source. |
| **Net/USB_*$** | S | Serial signal indicating the current Net/USB information. This will only be displayed when the Net/USB is selected as the source for the main zone. |
| **Net/USB_Highlighted_Line_*_Text$** | S | Analog value indicating the currently highlighted line of text in the Net/USB list. This will only be displayed when the Net/USB is selected as the source for the main zone. |
| **To_Device$** | S | Serial signal to be routed to a 2-way serial com port. |

## TESTING:

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|---|---|
| **OPS USED FOR TESTING:** | 3.155.1240 |
| **SIMPL WINDOWS USED FOR TESTING:** | 2.08.44 |
| **CRES DB USED FOR TESTING:** | 18.9.1 |
| **SYMBOL LIBRARY USED FOR TESTING:** | 508 |
| **SAMPLE PROGRAM:** | Yamaha RX-V1700 & RX-V2700 v2 Demo |
| **REVISION HISTORY:** | V. 1.0 – Original Release<br>V. 2.0 – Added controls and feedback for iPod and Net/USB. |

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